CDP-K1A

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model

Model Name Using Similar Mechanism	CDP-391
CD Mechanism Type	CDM14-5BD1
Optical Pick-Up Block Type	BU-5BD1

SPECIFICATIONS

Compact disc player

Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
Laser output	Max. 44.6 µW* * Ths output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	2 Hz – 20 kHz ±0.5 dB
Signal to noise ratio	More than 98 dB
Dynamic range	More than 92 dB
Harmonic distortion	Less than 0.008%
Channel separation	More than 95 dB

Output

LINE OUT (phono jacks)	Output level 1.5 V (at 50 kilohms) Load impedance over 10 kilohms
HEADPHONES (stereo phone jacks)	Output level max. 10 mW Load impedance 32 ohms

Input

MIC1/MIC2 jack	Phone jack 1 mV (Impedance below 1 kilohm)

General

Power requirements	UK model: 240V AC, 50/60Hz AEP model: 220–230V AC, 50/60Hz US model: 120V AC, 60Hz Canadian model: 120V AC, 60Hz E model: 110–120, 220–240 V AC adjustable, 50/60Hz
Power consumption	16W
Dimensions (approx., including projections)	355 x 95 x 310 mm (w/h/d) (14 x 3 3/4 x 12 1/4 inches)
Weight (approx.)	3.2 kg (7 lb 1 oz)

Supplied accessories

Audio cord (1) (2 phono plugs – 2 phono plugs)
Remote commander
RM-DK113 (US, Canadian, AEP, UK model)
RM-DK112 (E model)
Sony SUM-3(NS) batteries (2)

Design and specifications are subject to change without notice.

MICROFILM

COMPACT DISC PLAYER

SONY®

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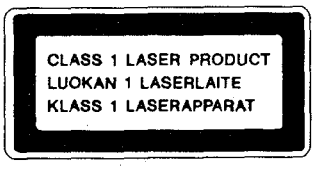
5. ELECTRICAL PARTS LIST 28

For the United Kingdom and European countries.



This compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

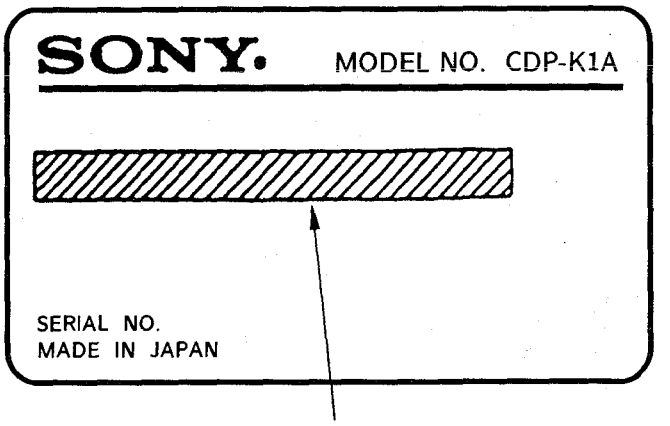
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30cm away from the objective lens.

MODEL IDENTIFICATION

- Specification Label -



US, Canadian Model : AC : 120V 60Hz 16W
AEP Model : AC : 220 - 230V ~ 50/60Hz
UK Model : AC : 240V ~ 50/60Hz
E Model : AC : 120/220/240V ~ 50/60Hz

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer :

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers.).

Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

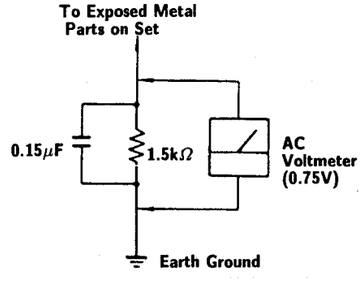


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1 GENERAL

This section is extracted from instruction manual.

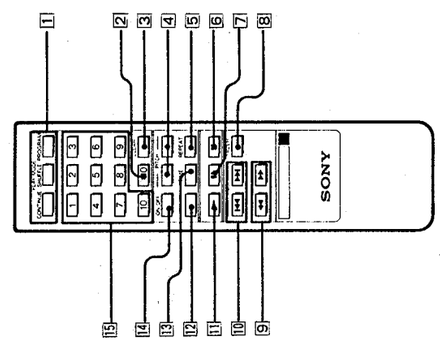
Identifying the Parts

Remote Commander B

Refer to the pages indicated in ( ) for details.

1 PLAY MODE buttons
CONTINUE button (28)
SHUFFLE button (28)
PROGRAM button (30)
>10 (over 10) button (24)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 CLEAR button (34)
PITCH (pitch control) +/– buttons (42)
REPEAT button (28)
■ (stop) button (20)
II (pause) button (20)
FADER button (38)
◀◀/▶▶ (manual search) buttons (26)
I◀◀/▶▶I AMS* buttons (24)
▶ (play) button (20)
KARAOKE PON/VOCAL REDUCTION button (44)
TIME button (22)
PITCH (pitch control) ON/OFF button (42)
Numeric buttons (24)

* AMS is the abbreviation of Automatic Music Sensor.

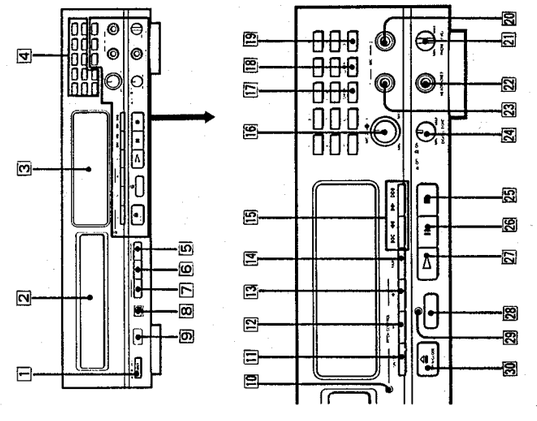


Front Panel A

Refer to the pages indicated in ( ) for details.

1 POWER switch (20)
2 Disc tray (20)
3 Display window
4 Numeric buttons (24)
5 PROGRAM button (30)
6 SHUFFLE button (28)
7 CONTINUE button (28)
8 AUTO PAUSE Switch (44)
9 Remote sensor
10 PITCH CONTROL indicator (42)
11 PITCH CONTROL ON/OFF button (42)
12 PITCH CONTROL –button (42)
13 PITCH CONTROL +button (42)
14 TIME button (22)
15 I◀◀ ◀◀/▶▶ ▶▶I (AMS*/manual search) buttons (24, 26, 30)
16 MIC control (40)
17 CHECK (program check) button (32)
18 CLEAR (program clear) button (34)
19 > 12 button (24)
20 MIC 2 jack (40)
21 PHONE LEVEL control (20)
22 HEADPHONES jack
23 MIC 1 jack (40)
24 DIGITAL ECHO button/level control (42)
25 ■ (stop) button (20)
26 II (pause) button (20)
27 ▶ play button (20)
28 KARAOKE PON/VOCAL REDUCTION button (44)
29 KARAOKE PON/VOCAL REDUCTION Indicator (44)
30 ⏏ (open/close) button (20)

* AMS is the abbreviation of Automatic Music Sensor.

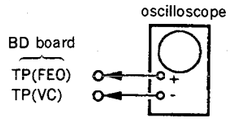


SECTION 2
ELECTRICAL BLOCK CHECKING

Note :

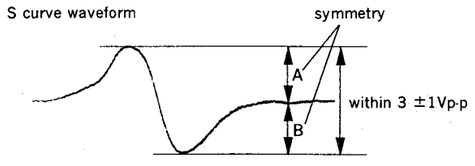
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

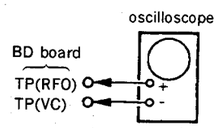
1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.



5. After check, remove the lead wire connected in step 2.

Note : • Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

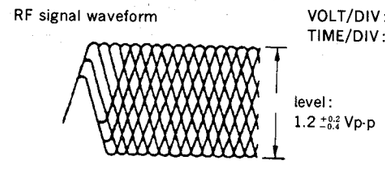


Procedure :

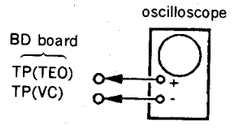
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

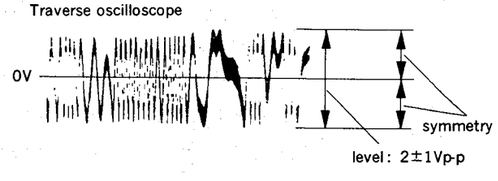


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

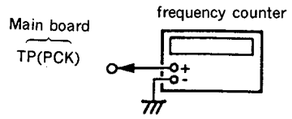


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.

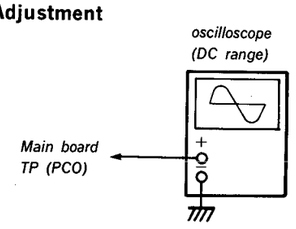


2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

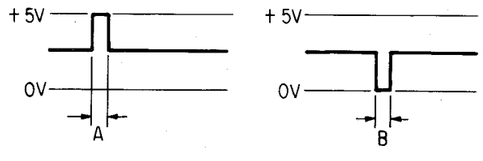
Focus/Tracking Gain

This gain has a margin, so even if it is slightly off.
There is no problem.
Therefore, do not perform, this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

VCO Adjustment

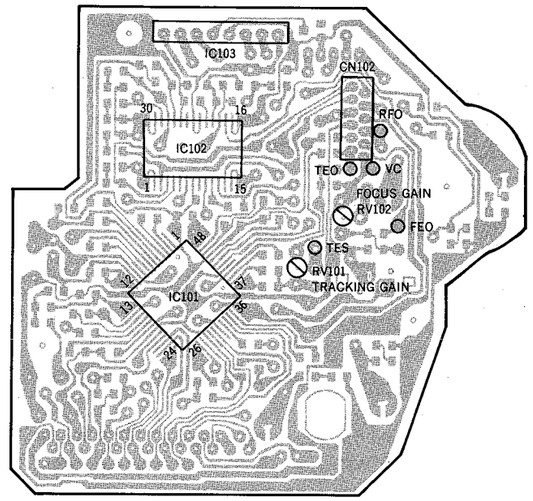


1. Connect oscilloscope to test point TP (RFO) on Main board.
2. Turn POWER switch on.
3. Adjust CT301 so that pulse width A or B are 0.5msec.

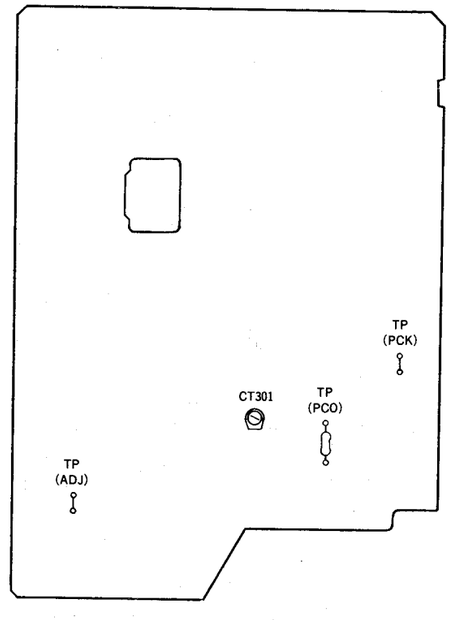


Adjustment Location :

BD board (Conductor Side)

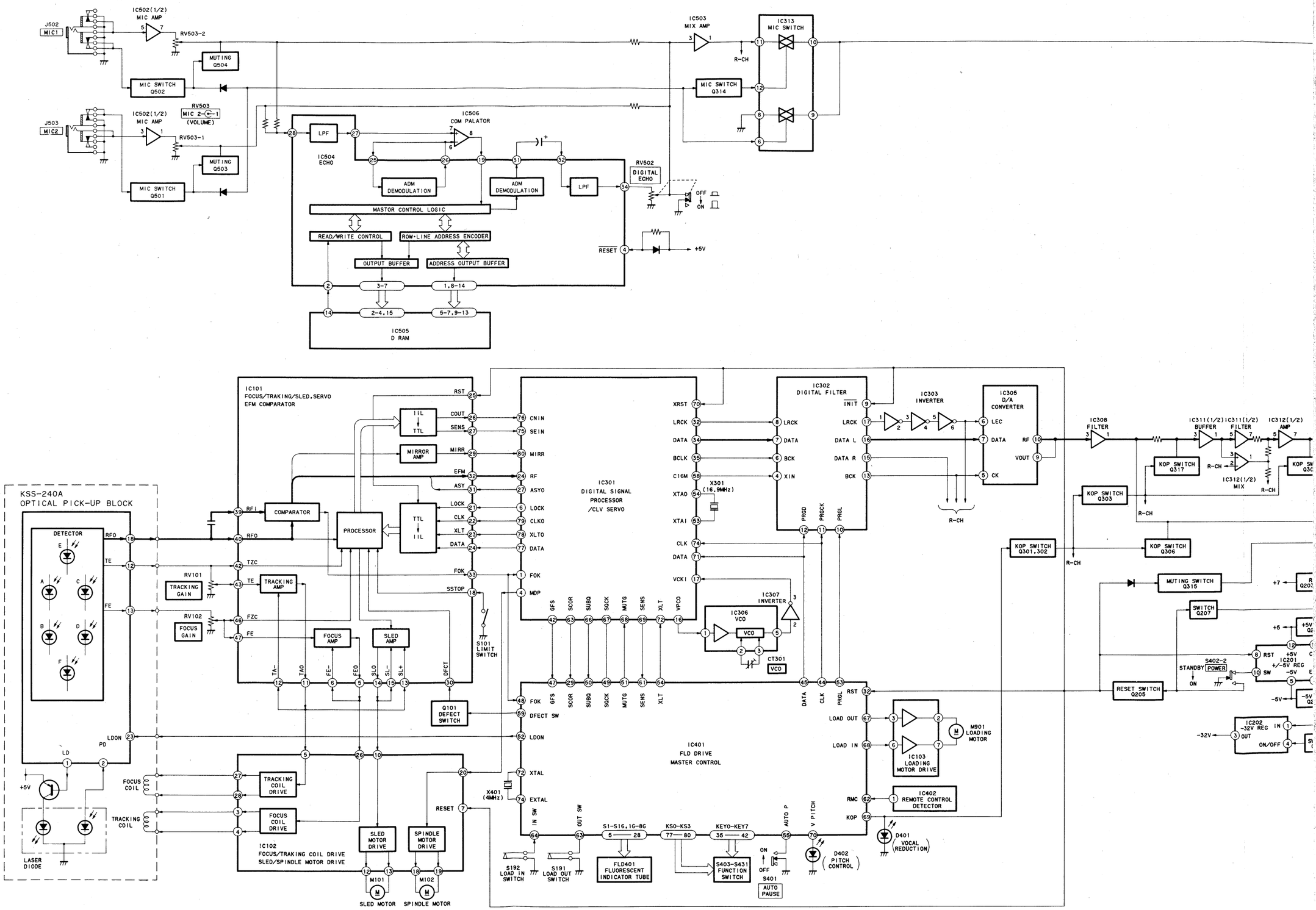


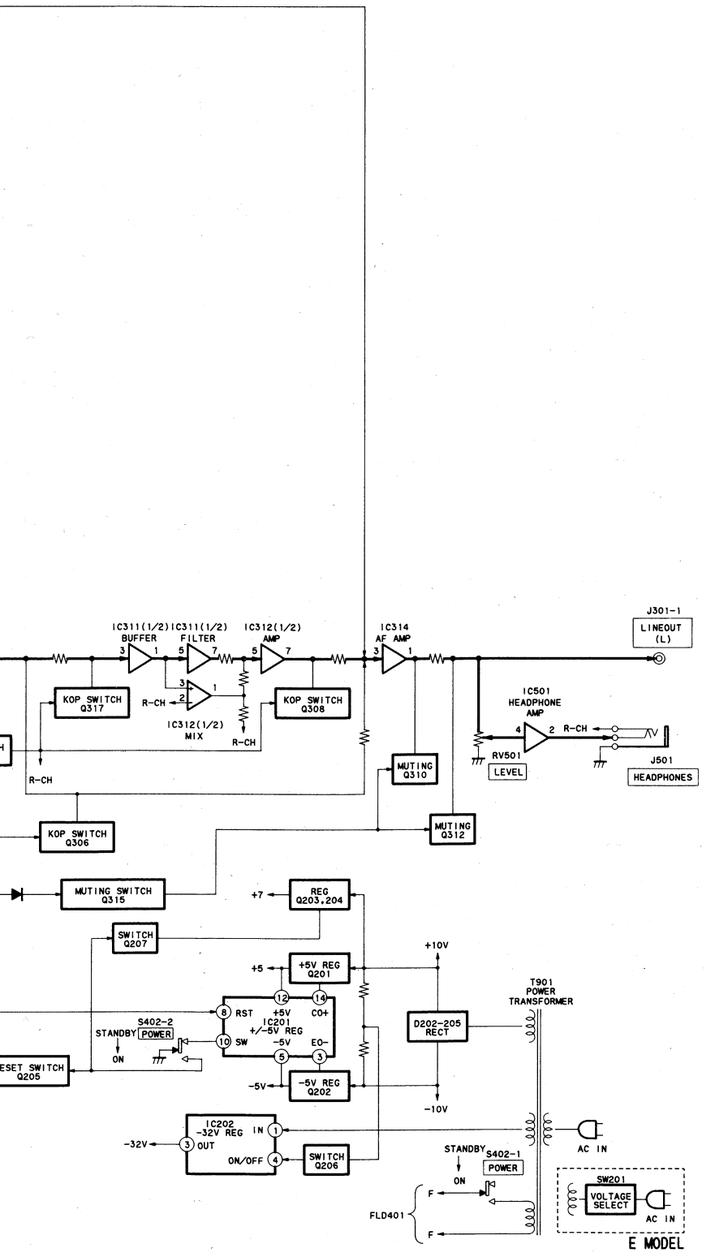
MAIN board (component side)



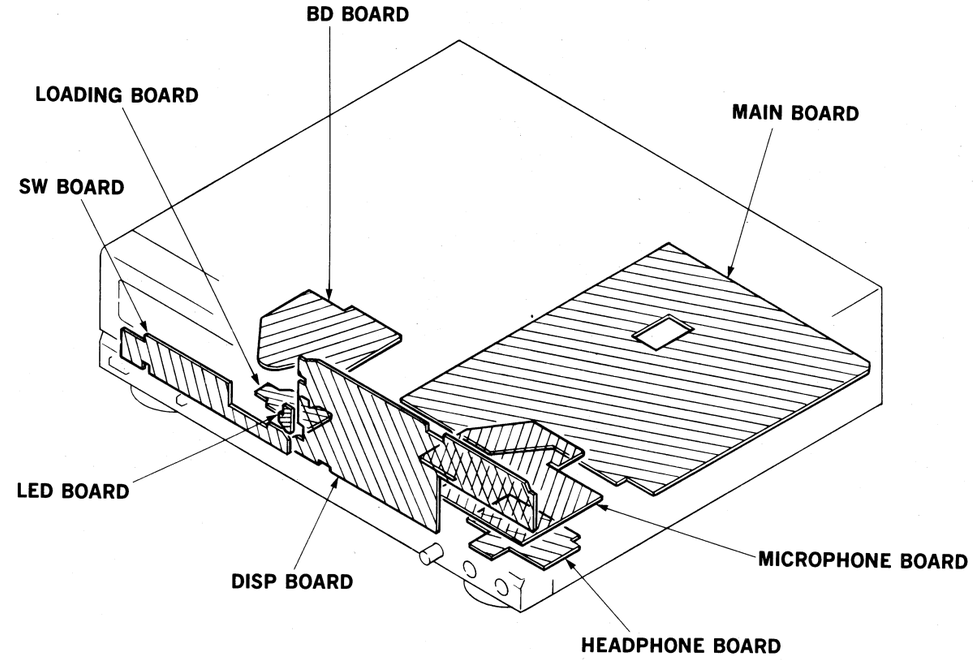
SECTION 3
DIAGRAMS

3-1. BLOCK DIAGRAM



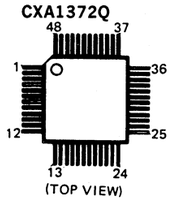


3-2 CIRCUIT BOARDS LOCATION



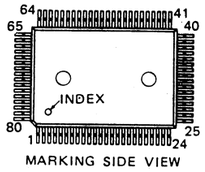
3-3. SEMICONDUCTOR LEAD LAYOUTS

CXA1372Q



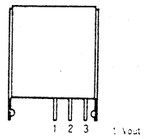
(TOP VIEW)

CXD2500AQ
CXP50112-256Q

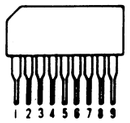


MARKING SIDE VIEW

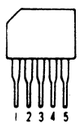
GPU52XB



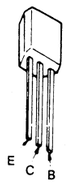
LM2903S
RC4556S



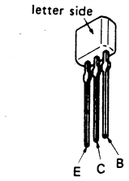
M5293L



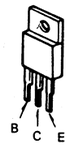
DTA144ES
DTC144ES
2SC2458-YGR



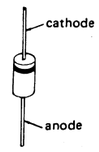
2SA1175-HFE
2SC3623A-LK



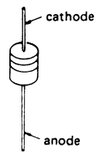
2SB1094-LK
2SD1913SA-R



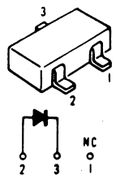
HZS7C3L



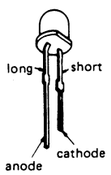
RD5.1ES-B2
RD6.8ES-B2
1SS202-1
11ES2



UZM4.7X



BR3371X



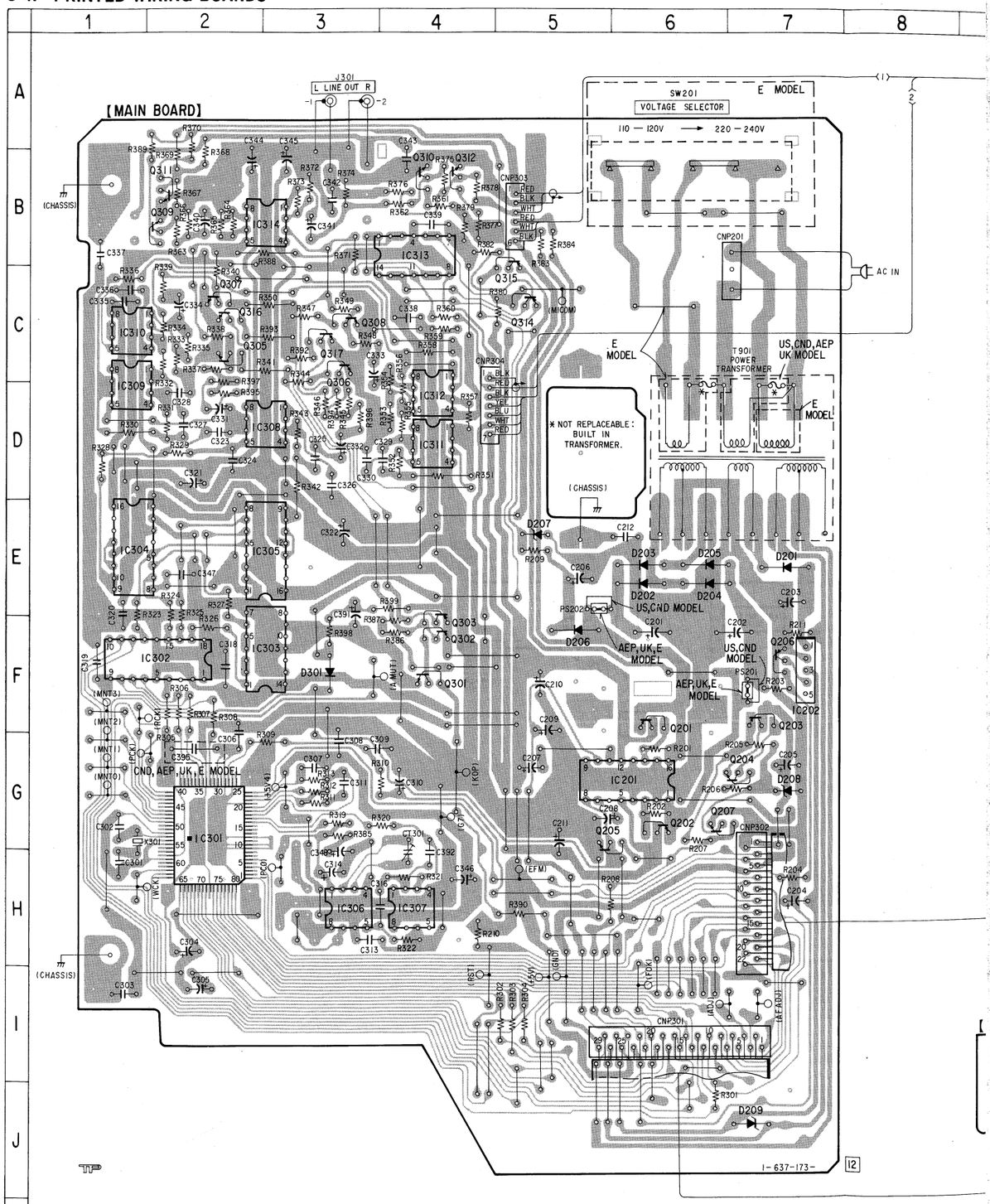
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	A-11	Q306	C-3
D201	E-7	Q307	C-2
D202	E-6	Q308	C-3
D203	E-6	Q309	B-2
D204	E-6	Q310	B-4
D205	E-6	Q311	B-2
D206	F-5	Q312	B-4
D207	E-5	Q314	C-5
D208	G-7	Q315	C-5
D209	J-7	Q316	C-2
D301	F-3	Q317	C-3
D401	H-17	Q501	C-21
D402	H-14	Q502	D-19
D501	D-20	Q503	E-18
D502	D-19	Q504	E-18
D503	B-18		
IC101	D-10		
IC102	B-10		
IC103	A-10		
IC201	G-6		
IC202	F-7		
IC301	G-2		
IC302	F-2		
IC303	F-3		
IC304	E-1		
IC305	E-3		
IC306	H-3		
IC307	H-4		
IC308	D-3		
IC309	D-1		
IC310	C-1		
IC311	D-4		
IC312	D-4		
IC313	B-4		
IC314	B-3		
IC401	I-17		
IC402	I-10		
IC501	D-24		
IC502	D-20		
IC503	D-19		
IC504	C-18		
IC505	C-19		
IC506	D-17		
Q101	D-11		
Q201	F-6		
Q202	G-6		
Q203	F-7		
Q204	G-7		
Q205	G-5		
Q206	F-7		
Q207	G-6		
Q301	F-4		
Q302	F-4		
Q303	F-4		
Q305	C-2		

Note:

- ○——: parts extracted from the component side.
- ●: Through hole.
- ■: parts mounted on the conductor side.
- ▒▒: Pattern on the side which is seen.
- ▒▒: Pattern of the rear side.
- CND: Canadian model

3-4. PRINTED WIRING BOARDS



7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

E MODEL

240V

AC IN

US,CND,AEP
UK MODEL

E
MODEL

D201

C203

R211

Q206

C204

R204

C205

D208

IC202

Q203

IC201

I-637-173-

12

【BD BOARD】

IC103

D101

CN103

J101

J102

IC102

TP (TEO)

TP (VC)

TP (FEO)

TP (TES)

TP (FES)

TP (RF)

M102 SPINDLE

RV102

RV101

S101 (LIMIT)

IC101

Q101

M101 SLED

I-632-203-

22

OPTICAL
PICK-UP BLOCK
KSS-240A

【LOADING BOARD】

CN301

M191 LOADING

S272 (LOAD IN)

S271 (LOAD OUT)

I-632-202-

11

【MICROPHONE BOARD】

IC504

IC505

IC506

IC503

IC502

Q501

Q502

Q503

Q504

D502

D503

RV503
MIC 2 (VOLUME)

(CHASSIS)

1 MIC 2

I-637-174-

12

【HEADPHONE BOARD】

CNP502

CNP501

IC501

RV502
DIGITAL ECHO

RV501
LEVEL

J501
HEADPHONES

I-637-175-

12

【LED BOARD】

CN405

D402

(PITCH CONTROL)

I-637-178

11

【SW BOARD】

S401

AUTO PAUSE

PLAY MODE

CONTINUE

SHUFFLE

PROGRAM

OFF → ON

S402 POWER

STANDBY

ON

IC402

CNP402 CNP403 CNP405 CNP404

I-637-177-

11

【DISP BOARD】

S428
VOCAL REDUCTION

S427
OPEN/CLOSE

S421
ON/OFF

VOCAL REDUCTION

D401

PITCH CONTROL

TIME

IC401

FLD401

CN401

CN402

CN403

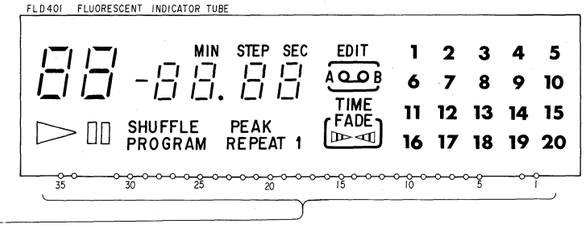
CN404

S406 S407 S408 S409 S410 S411 S412 S413 S414 S415 S416 S417 S418 CHECK S419 CLEAR S420

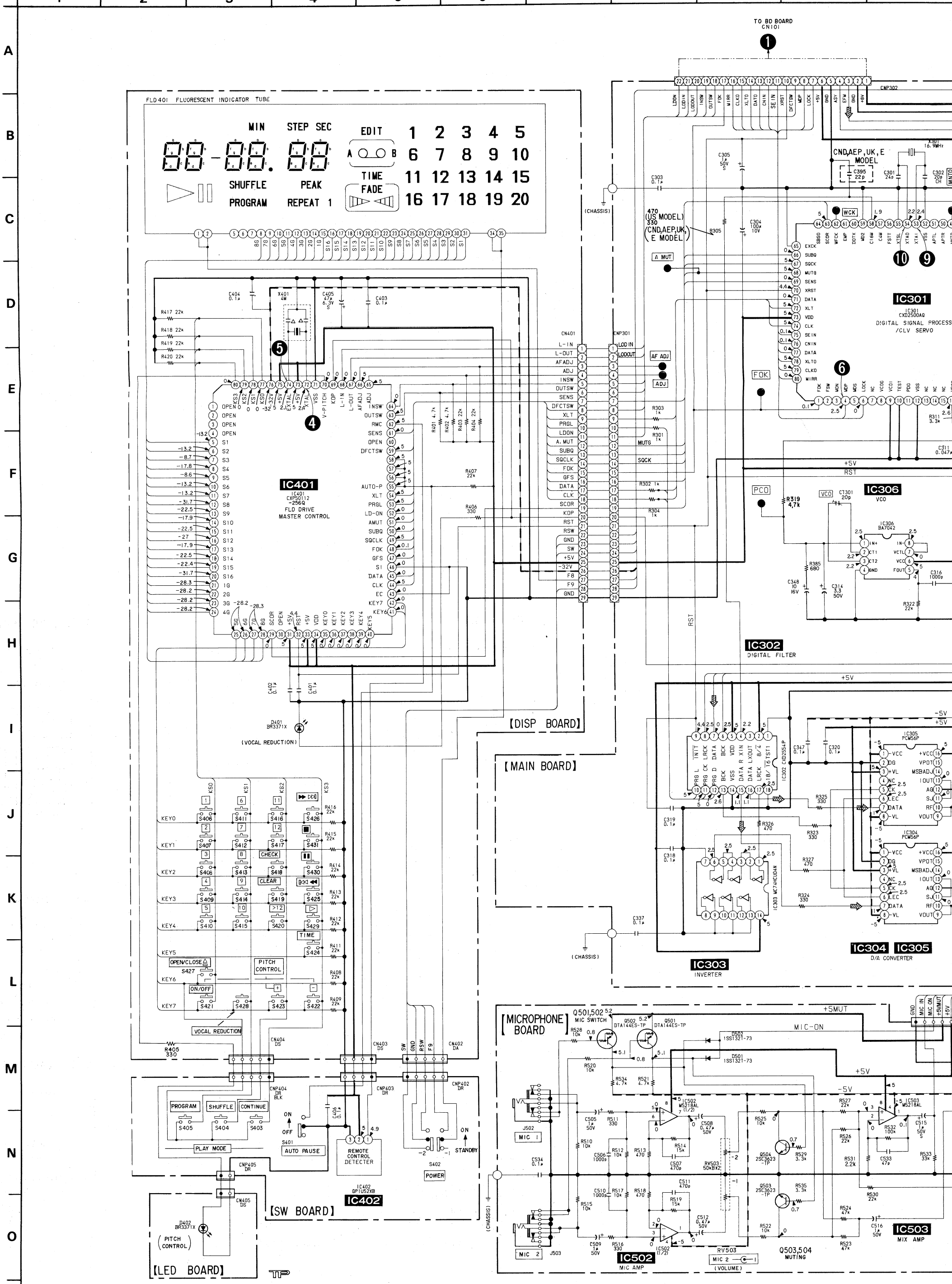
I-637-176-

12

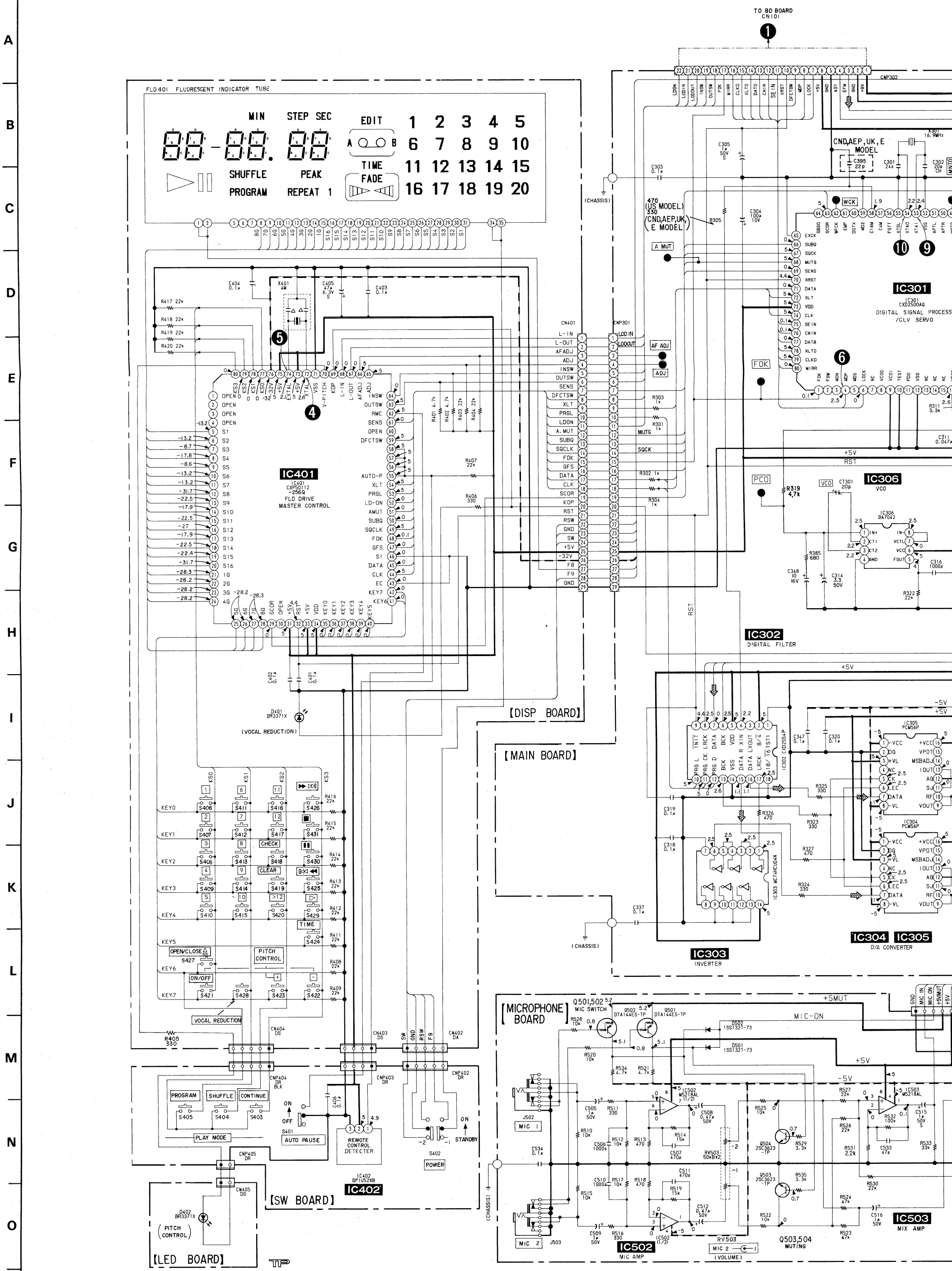
FLD401 FLUORESCENT INDICATOR TUBE



3-5. SCHEMATIC DIAGRAM —MAIN SECTION— • Refer to page 21 for IC Block Diagrams.



3-5. SCHEMATIC DIAGRAM —MAIN SECTION— • Refer to page 21 for IC Block Diagrams.



CNP302

IC301
CXD2500AQ
DIGITAL SIGNAL PROCESSOR
/CLV SERVO

IC306
VCO

IC307
INVERTER

IC201
+/-5V REG

Q206
SWITCH

IC202
-32V REG

Q203,204
REG

Q202
-5V REG

Q201
+5V REG

Q205
DTC144ES-TP
RESET SWITCH

Q207
DTC144ES-TP
SWITCH

T901
POWER TRANSFORMER

E MODEL

US,CND,AEP MODEL

AEP,UK,E MODEL

US,CND MODEL

* NOT REPLACEABLE: BUILT IN TRANSFORMER

AC IN

SW201
VOLTAGE SELECTOR
220 – 240V
110 – 120V

(CHASSIS)

CNP303 PH
R
G
L
+10V
-10V
GND

CNP304 PH
GND
MIC-
MIC-I
+5MUT
+5V
GND
-5V

IC313
MIC SWITCH

Q314
MIC SWITCH

Q301-303
KOP SWITCH

Q315
DTA144ES-TP
MUTING SWITCH

IC311
BUFFER/FILTER

IC312
MIX/AMP

IC304 IC305
D/A CONVERTER

IC308
FILTER

316,317
PO SWITCH

IC309
BUFFER/FILTER

IC310
AMP

Q307,308
KPO SWITCH

Q305,306
KPO SWITCH

IC314
AF AMP

Q309-312
MUTING

J301

LINE OUT

CNP503 PH

IC503
MIX AMP

IC504
ECHO

IC506
COMPARATOR

IC505
D RAM

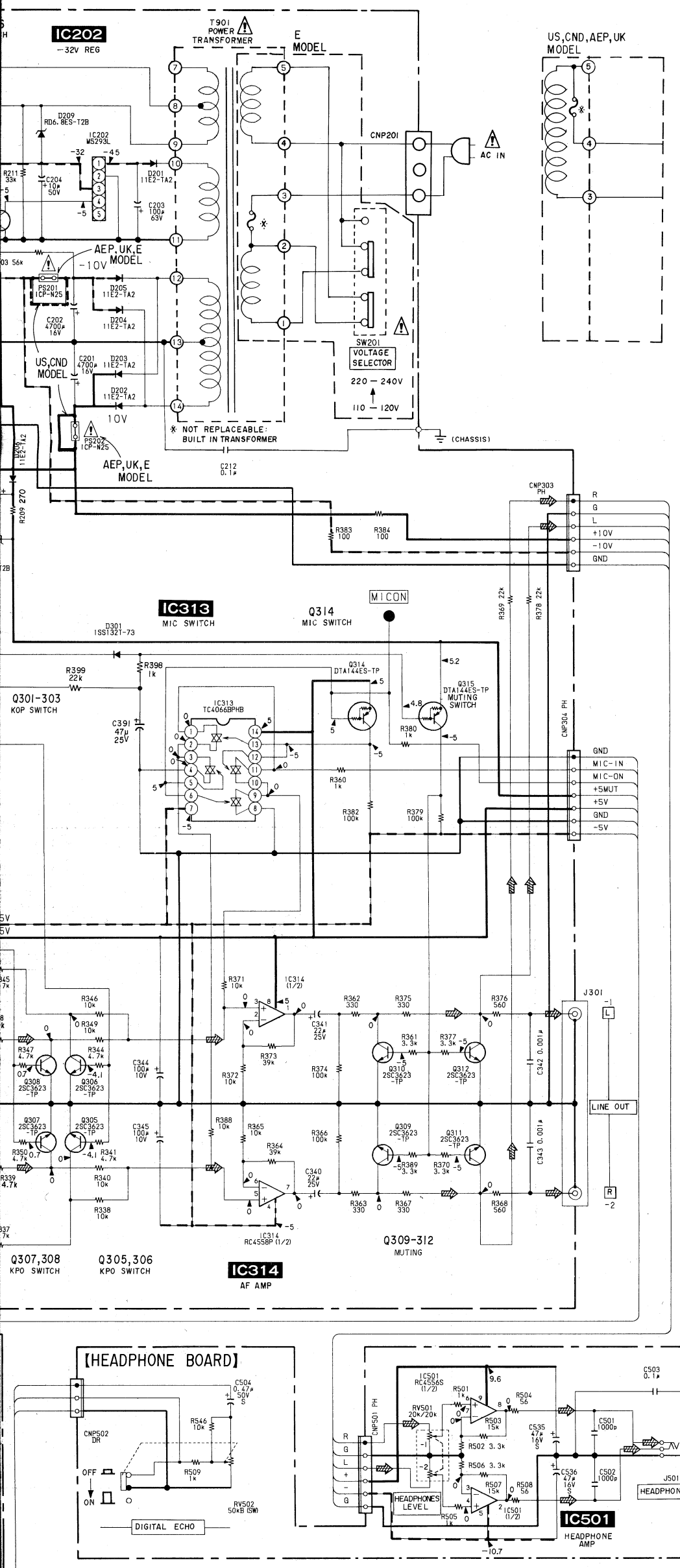
【HEADPHONE BOARD】

CNP502 DR

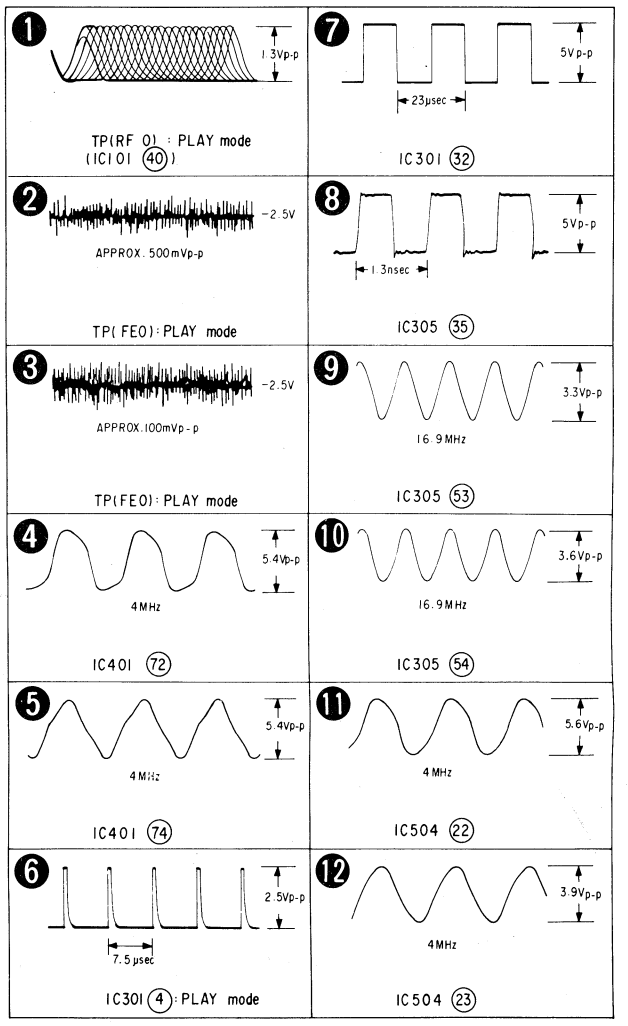
DIGITAL ECHO

CNP501 PH

IC501
HEADPHONE AMP



• Waveforms

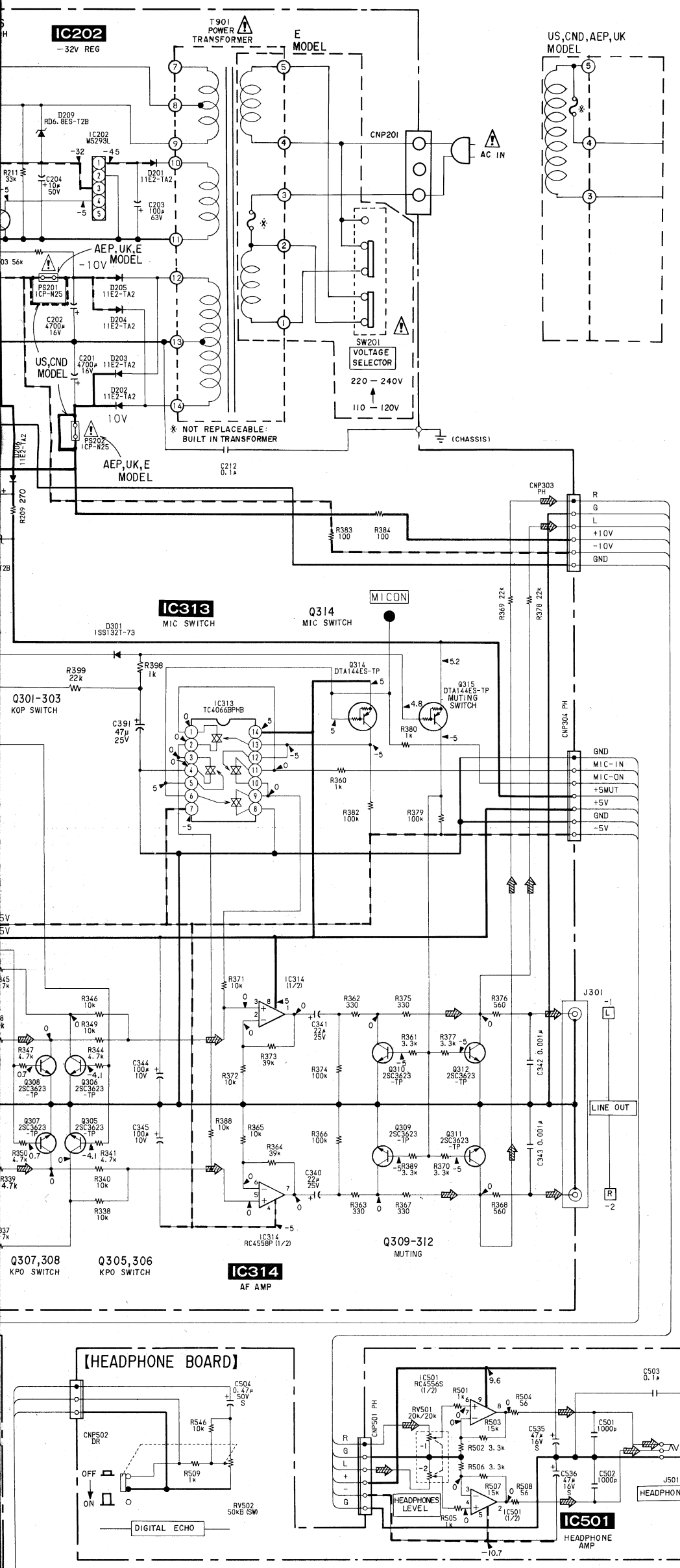


Note:

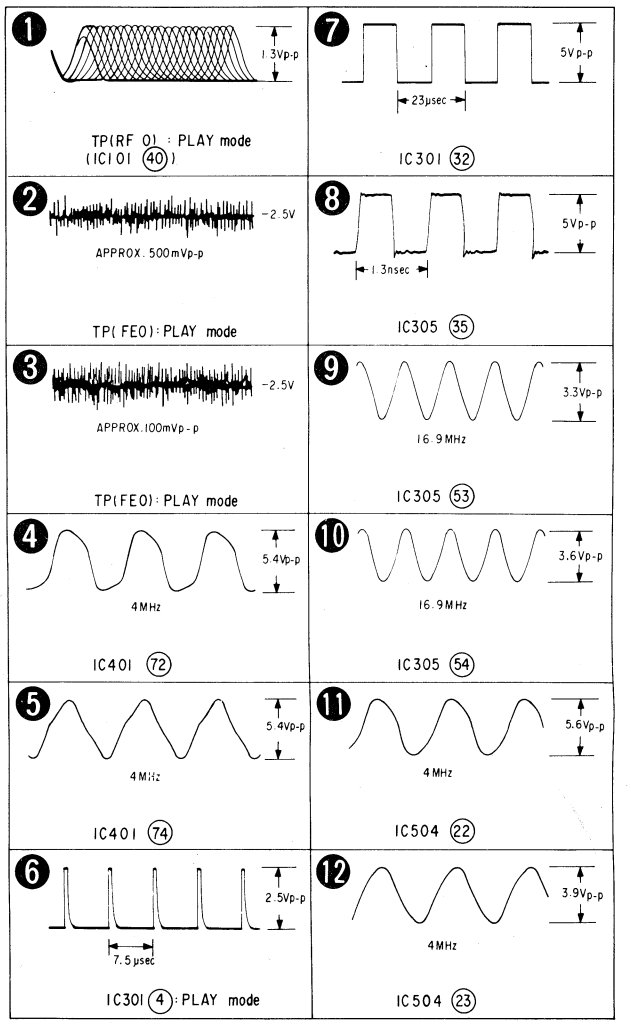
- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬▬ : B+ Line
- ▬ ▬ : B− Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
- CND: Canadian model



• Waveforms



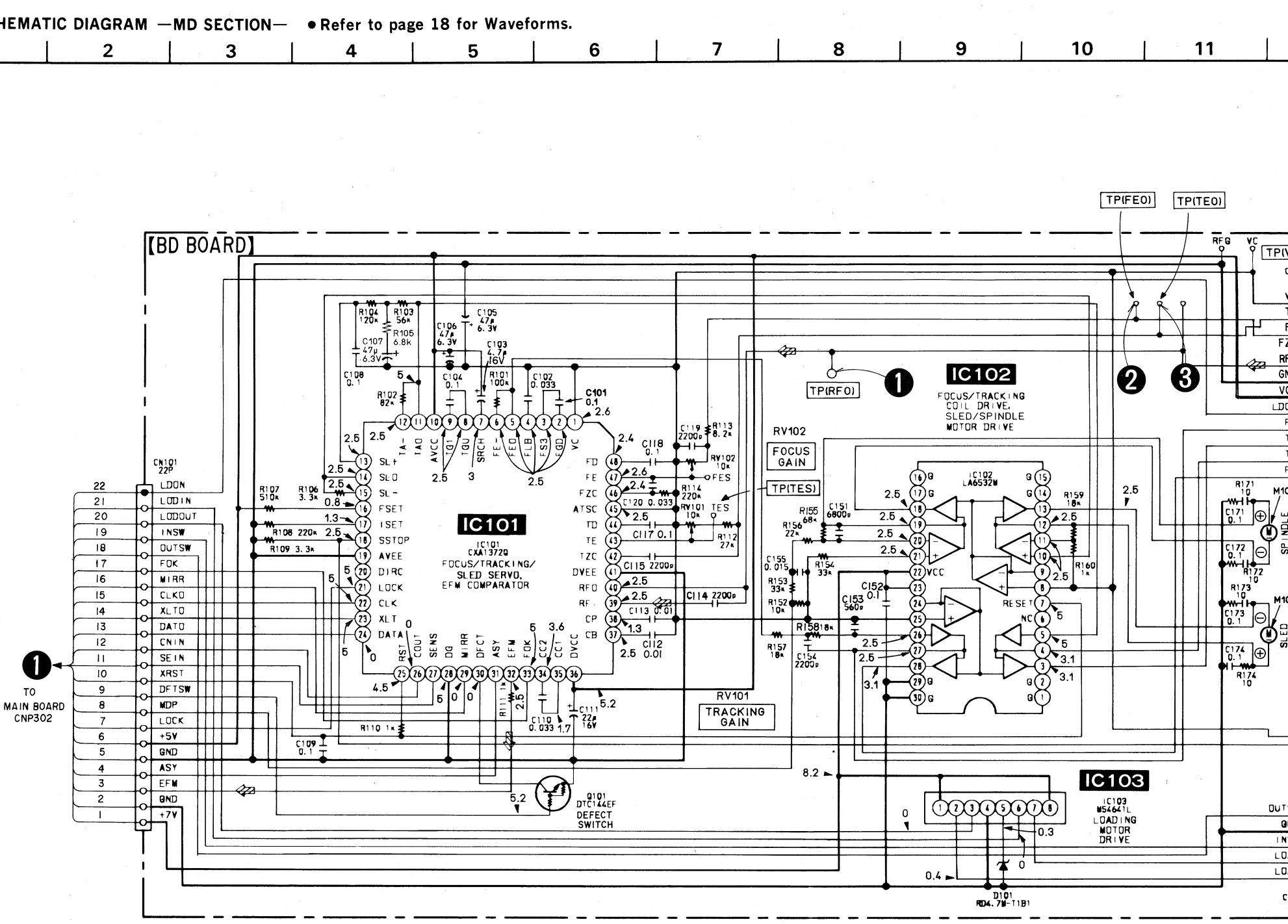
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.

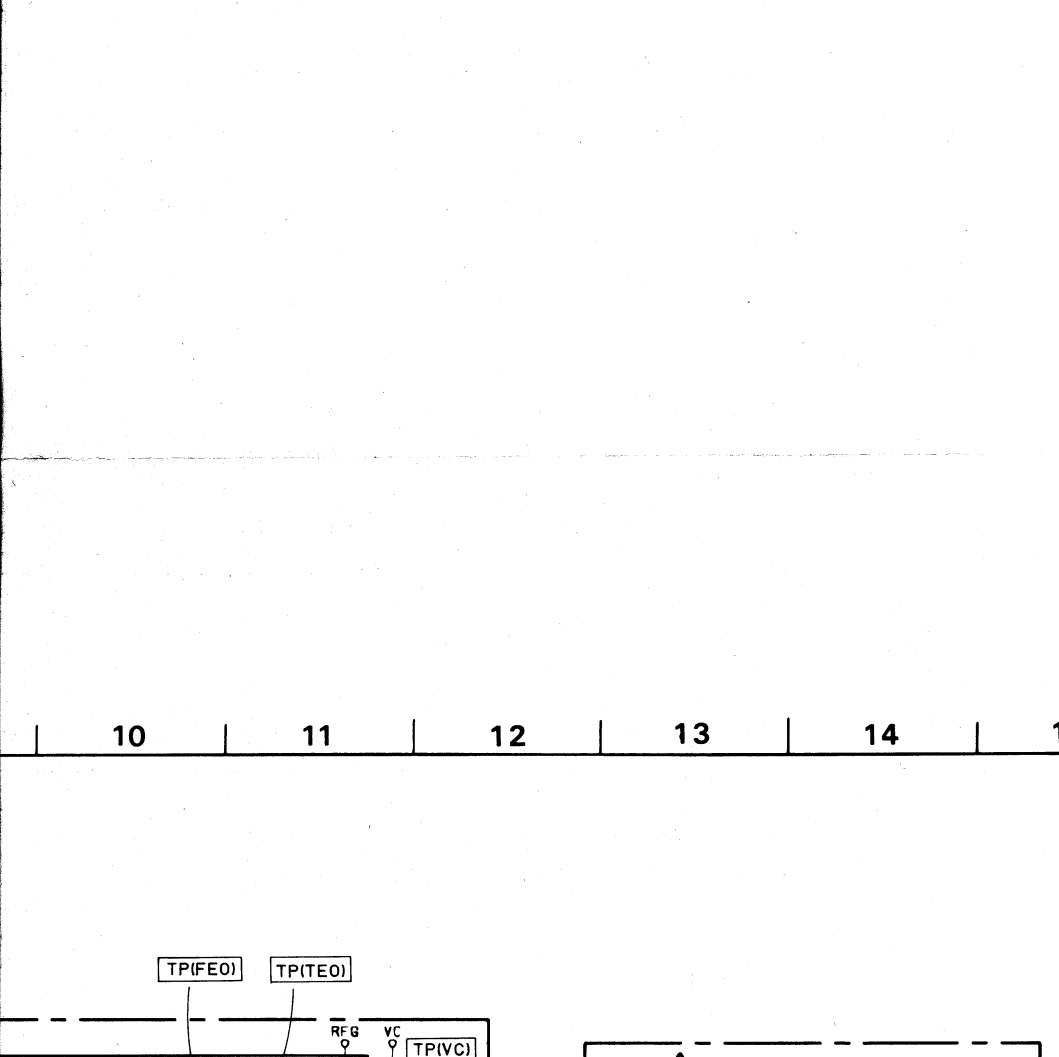
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬▬ : B+ Line
- ▬ ▬ : B− Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
- CND : Canadian model

3-6. SCHEMATIC DIAGRAM —MD SECTION— • Refer to page 18 for Waveforms.

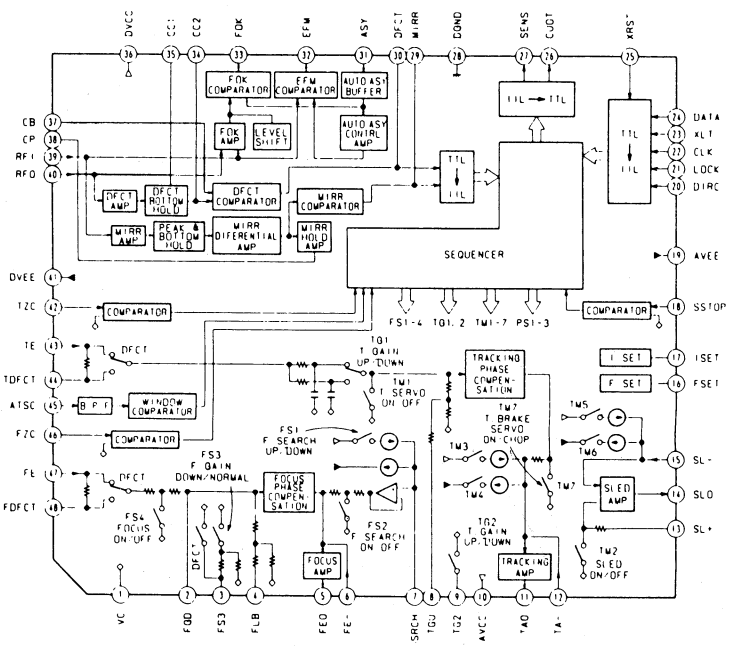


10	11	12	13	14	15

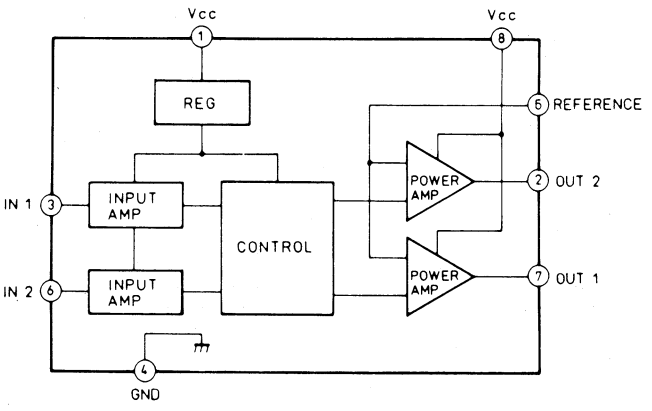


• IC Block Diagrams

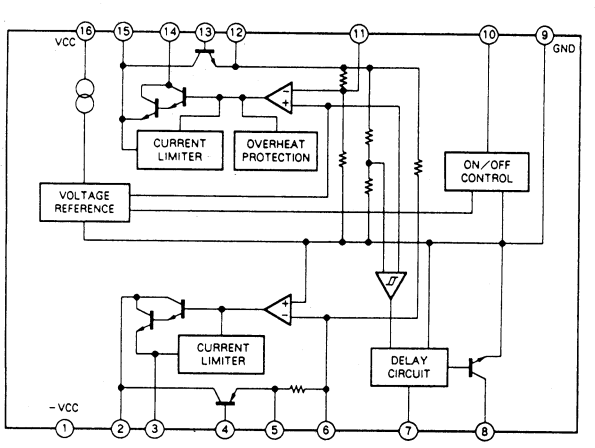
IC101 CXA1372AQ



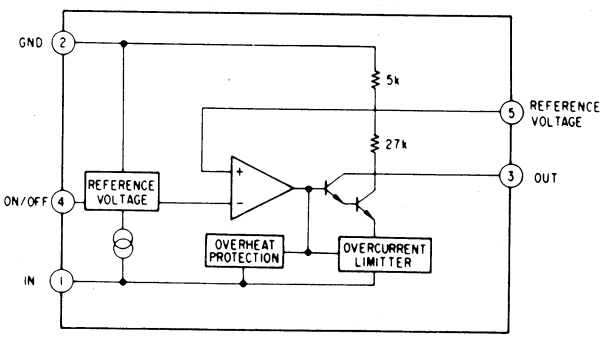
IC103 M54641L

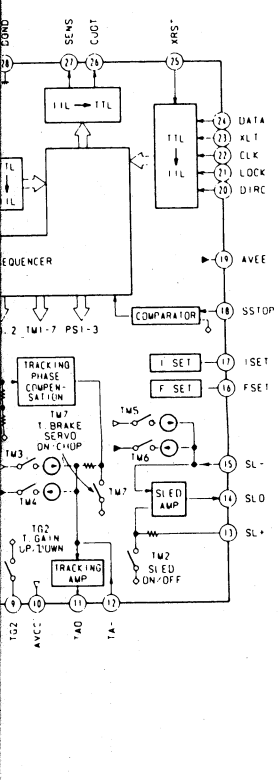


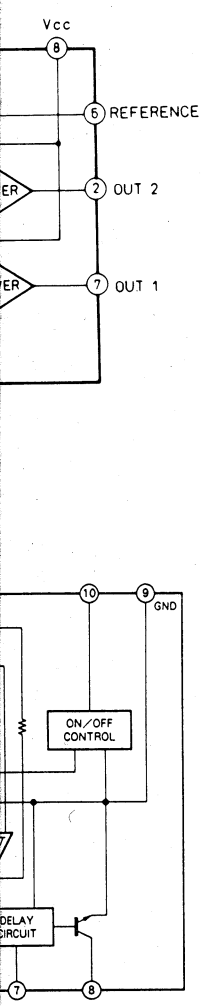
IC201 M5290P-16

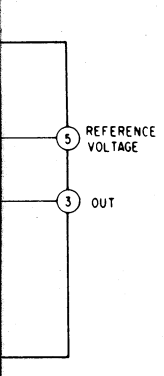


IC202 M5293L

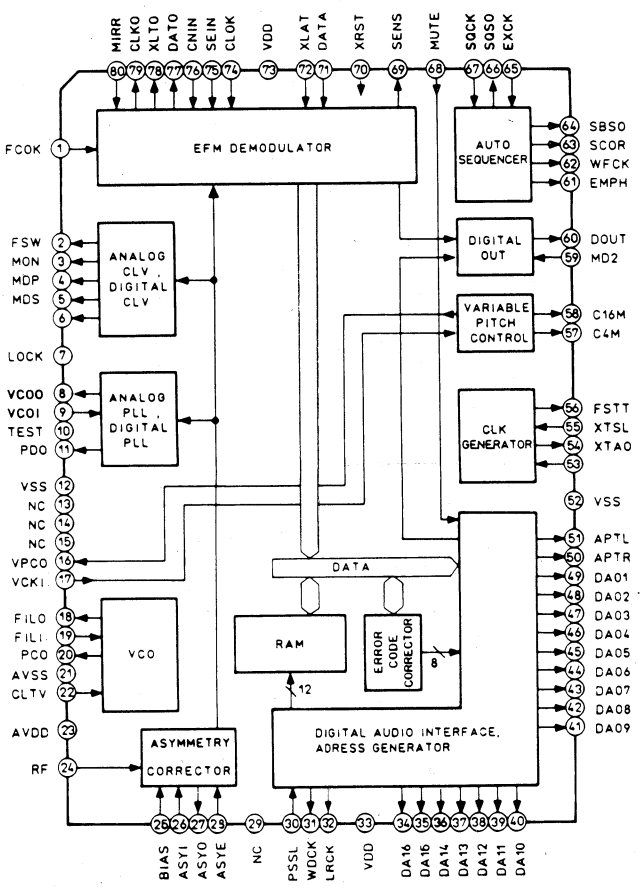




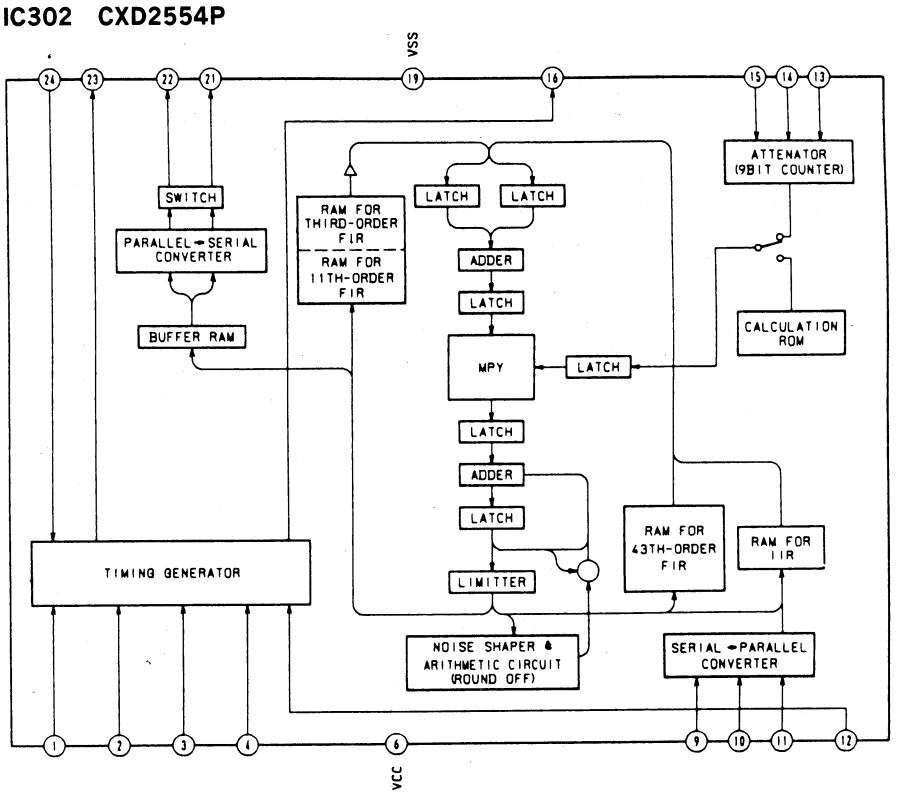




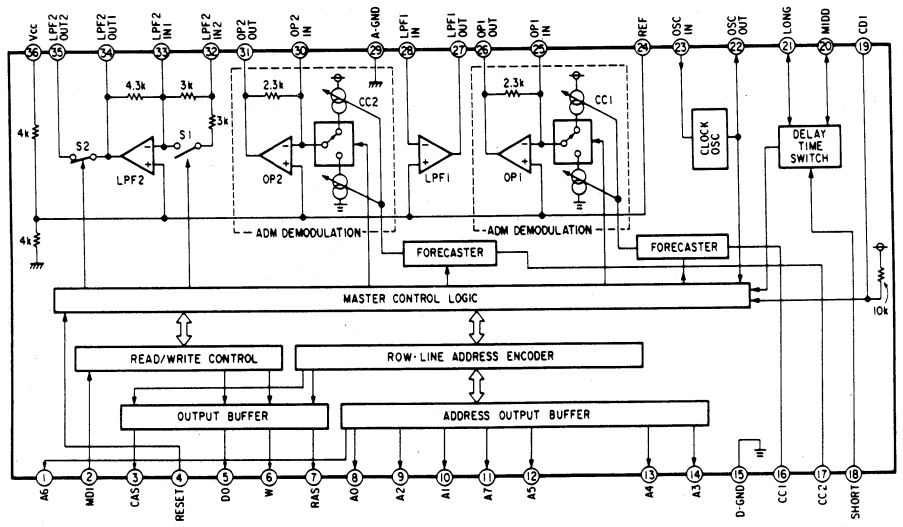
IC301 CXD2500AQ



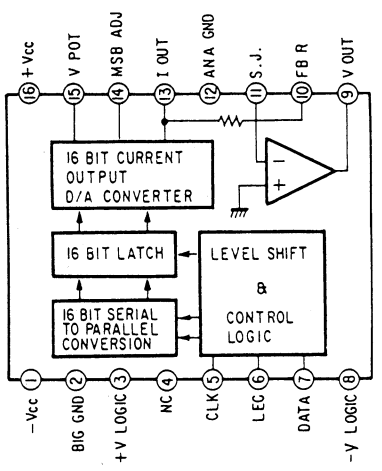
IC302 CXD2554P



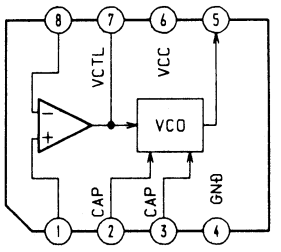
IC504 M50195P



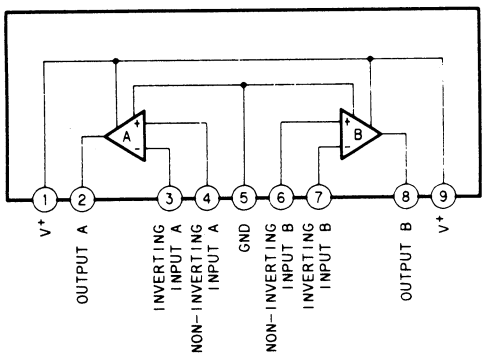
IC304, 305 PCM56P



IC306 BA7042



IC506 LM2903S



3-7. PIN DESCRIPTION

• IC401 CXP50112-256Q

Pin No.	Pin Name	I /O	Description	Pin No.	Pin Name	I /O	Description
1	—	O	—	41	KEY6	I	Key scan 6
2	—	O	—	42	KEY7	I	Key scan 7
3	—	O	—	43	—	I	0V
4	—	O	—	44	CLK	O	SSP, DSP, D/F data clock
5	S1	O	Display segment S1	45	DATA	O	SSP, DSP, D/F data
6	S2	O	Display segment S2	46	—	I	0V
7	S3	O	Display segment S3	47	GFS	I	GFS input
8	S4	O	Display segment S4	48	FOK	I	FOK input
9	S5	O	Display segment S5	49	SQCLK	O	SUB-Q read clock
10	S6	O	Display segment S6	50	SUBQ	I	SUB-Q serial data
11	S7	O	Display segment S7	51	AMUT	O	Audio mute out (mute on "H")
12	S8	O	Display segment S8	52	LDON	O	Laser on/off (Laser on "H")
13	S9	O	Display segment S9	53	PRGL	O	D/F data latch pulse
14	S10	O	Display segment S10	54	XLT	O	SSP, DSP, data latch pulse
15	S11	O	Display segment S11	55	AUTO-P	I	AUTO PAUSE (on "L")
16	S12	O	Display segment S12	56	—	I	—
17	S13	O	Display segment S13	57	—	I	—
18	S14	O	Display segment S14	58	—	I	—
19	S15	O	Display segment S15	59	DFCTSW	O	DEFECT circuit control terminal
20	S16	O	Display segment S16	60	—	—	—
21	1G	O	Display grid 1	61	SENS	I	SSP, DSP, sense terminal
22	2G	O	Display grid 2	62	RMC	I	Remote commander input
23	3G	O	Display grid 3	63	OUTSW	I	Loading out switch
24	4G	O	Display grid 4	64	$\overline{\text{INSW}}$	I	Loading in switch
25	5G	O	Display grid 5	65	ADJ	I	ADJ mode terminal
26	6G	O	Display grid 6	66	AFADJ	I	AFADJ mode terminal
27	7G	O	Display grid 7	67	LODOUT	O	Loading out output
28	8G	O	Display grid 8	68	LODIN	O	Loading in output
29	SCOR	I	SUB-Q sync input	69	KOP	O	KARAOKE PON LED
30	—	—	—	70	V-PITCH	O	VARIABLE PITCH control LED
31	+5V	I	+5V	71	VSS	I	0V
32	$\overline{\text{RST}}$	I	RESET input	72	XTAL	—	Main system clock connection
33	NC	I	+5V	73	+5v	I	+5V
34	Vdd	I	+5V	74	EXTAL	I	Main system clock connection
35	KEY0	I	Key scan 0	75	+5V	I	+5V
36	KEY1	I	Key scan 1	76	-32V	I	Display glid, segment low voltage input
37	KEY2	I	Key scan 2	77	KS0	O	Key source output 0
38	KEY3	I	Key scan 3	78	KS1	O	Key source output 1
39	KEY4	I	Key scan 4	79	KS2	O	Key source output 2
40	KEY5	I	Key scan 5	80	KS3	O	Key source output 3

SECTION 4
EXPLODED VIEWS

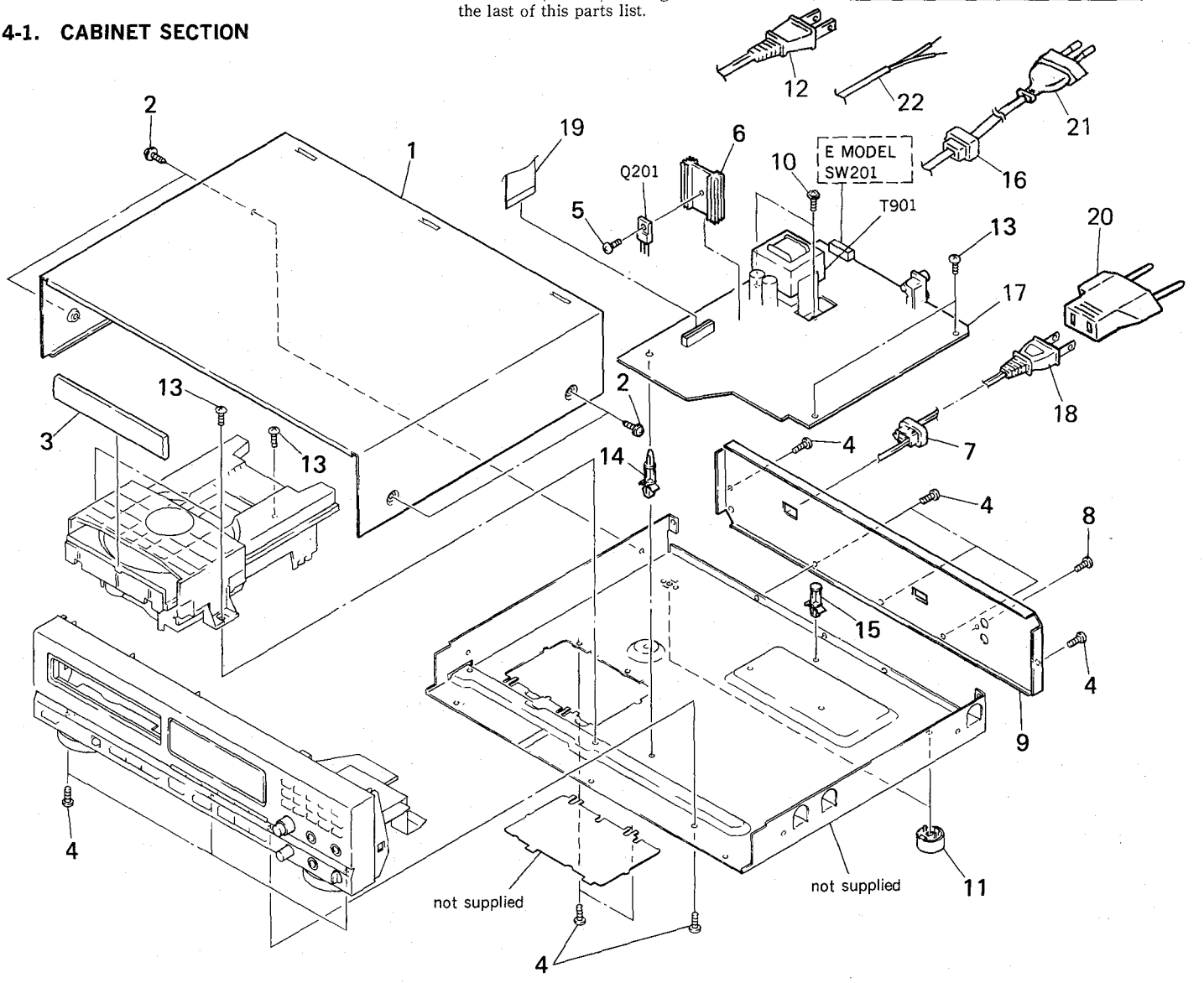
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE)...(RED)
  ↑ Parts Color ↑ Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

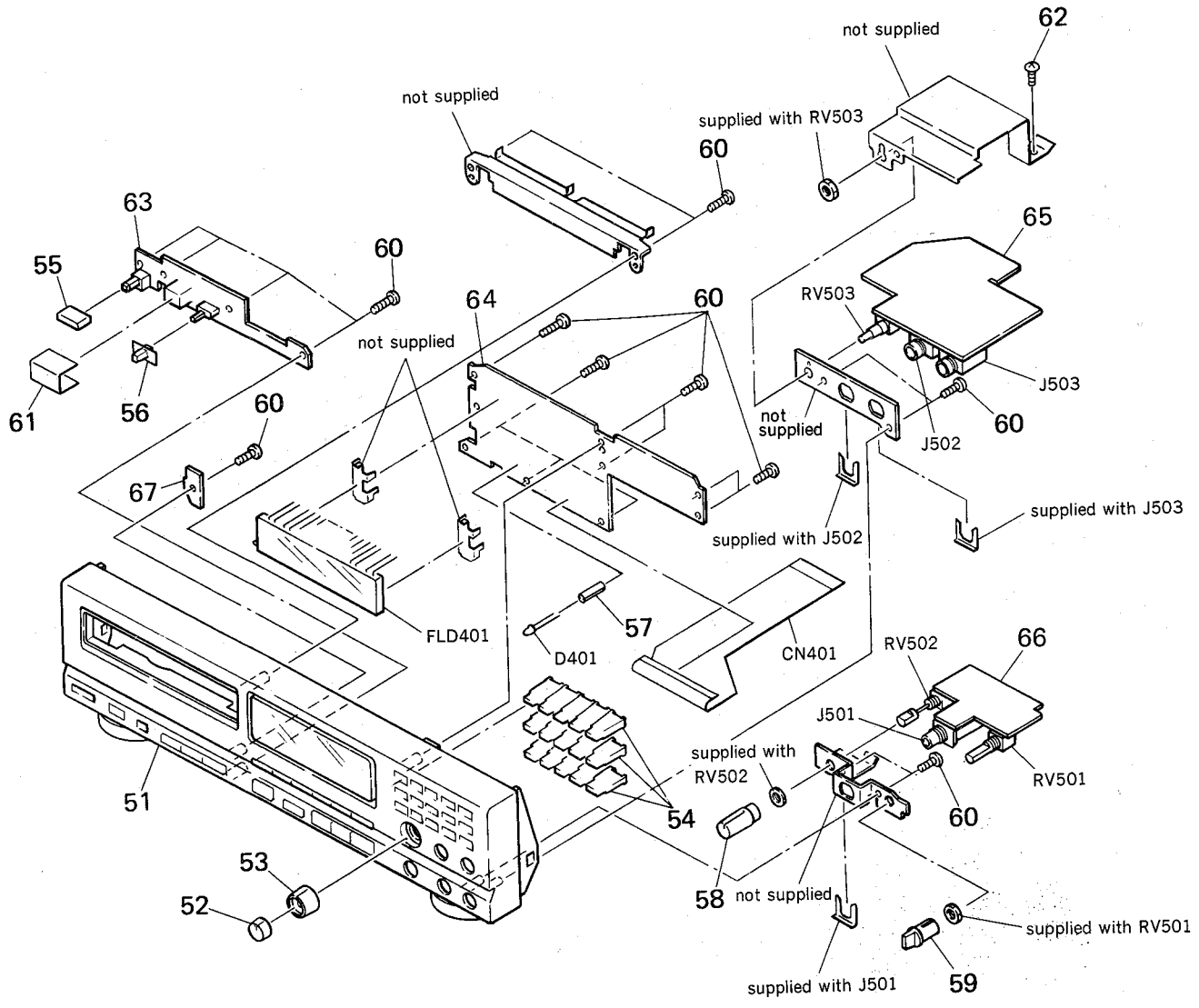
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	4-919-376-31	CASE	
2	3-704-366-31	SCREW (CASE) (M3X6)	
3	4-947-549-01	PANEL, LOADING	
4	7-682-547-09	SCREW +BVTT 3X6 (S)	
5	7-682-147-15	SCREW, TR	
* 6	4-908-502-01	HEAT SINK	
* 7	3-703-571-11	BUSHING (S) (4516), CORD (E)	
8	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
* 9	4-948-347-11	PANEL, BACK (E)	
* 9	4-948-347-22	PANEL, BACK (US)	
* 9	4-948-347-31	PANEL, BACK (Canadian)	
* 9	4-948-347-41	PANEL, BACK (AEP)	
* 9	4-948-347-51	PANEL, BACK (UK)	
10	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
11	4-933-601-01	FOOT	
⚠12	1-590-836-11	CORD, POWER (US, Canadian)	
13	7-682-547-04	SCREW +BVTT 3X6 (S)	
* 14	4-924-098-31	HOLDER, PC BOARD	
* 15	3-349-025-31	HOLDER, PC BOARD	
* 16	3-703-244-00	BUSHING (2104), CORD (US, Canadian, AEP, UK)	
* 17	A-4617-647-A	MAIN BOARD, COMPLETE (AEP, UK)	
* 17	A-4617-651-A	MAIN BOARD, COMPLETE (E)	
* 17	A-4617-910-A	MAIN BOARD, COMPLETE (US, Canadian)	
⚠18	1-558-943-41	CORD, POWER (E)	
19	1-575-160-11	WIRE, FLAT TYPE (22 CORE)	
⚠20	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
⚠21	1-575-651-21	CORD, POWER (AEP)	
⚠22	1-558-946-21	CORD, POWER (UK)	
⚠T901	1-449-921-11	TRANSFORMER, POWER (US, Canadian)	
⚠T901	1-449-922-11	TRANSFORMER, POWER (AEP, UK)	
⚠T901	1-449-923-11	TRANSFORMER, POWER (E)	

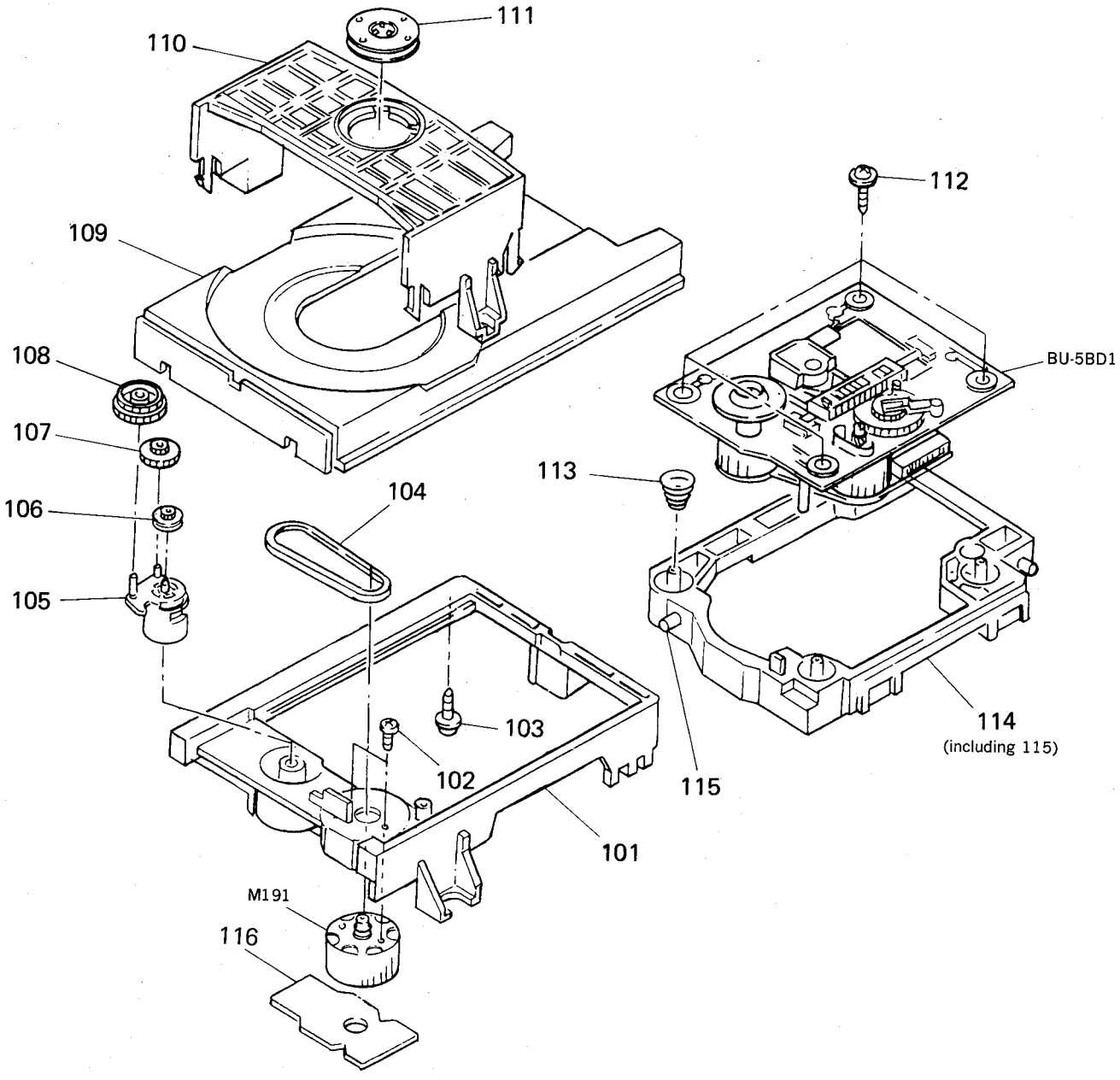
4-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-4942-302-1	PANEL ASSY, FRONT (US, Canadian)	
51	X-4942-303-1	PANEL ASSY, FRONT (AEP, UK)	
51	X-4942-304-1	PANEL ASSY, FRONT (E)	
52	X-4941-107-1	KNOB (MIC/1) ASSY (E)	
52	X-4941-226-1	KNOB (MIC/1) ASSY (US, Canadian, AEP, UK)	
53	4-941-663-01	KNOB (MIC/2) (US, Canadian, AEP, UK)	
54	4-941-661-01	BUTTON (M/C)	
55	4-927-341-01	BUTTON (POWER)	
56	4-922-518-11	KNOB (TIMER)	
* 57	4-923-532-31	SPACER, LED	

Ref. No.	Part No.	Description	Remark
58	4-941-664-01	KNOB (ECOH) (US, Canadian, AEP, UK)	
59	4-922-531-01	KNOB (A TYPE), LOV	
60	4-951-620-01	SCREW (2.6X8), +BVTP	
* 61	4-937-504-01	SHEET (REMOTE CONTROL)	
62	7-682-547-04	SCREW +BVTT 3X6 (S)	
* 63	1-637-177-11	SW BOARD	
* 64	1-637-176-11	DISP BOARD	
* 65	A-4617-650-A	MICROPHONE BOARD, COMPLETE	
* 65	A-4617-650-A	MICROPHONE BOARD, COMPLETE	
* 66	1-637-175-11	HEADPHONE BOARD	
* 67	1-637-178-11	LED BOARD	

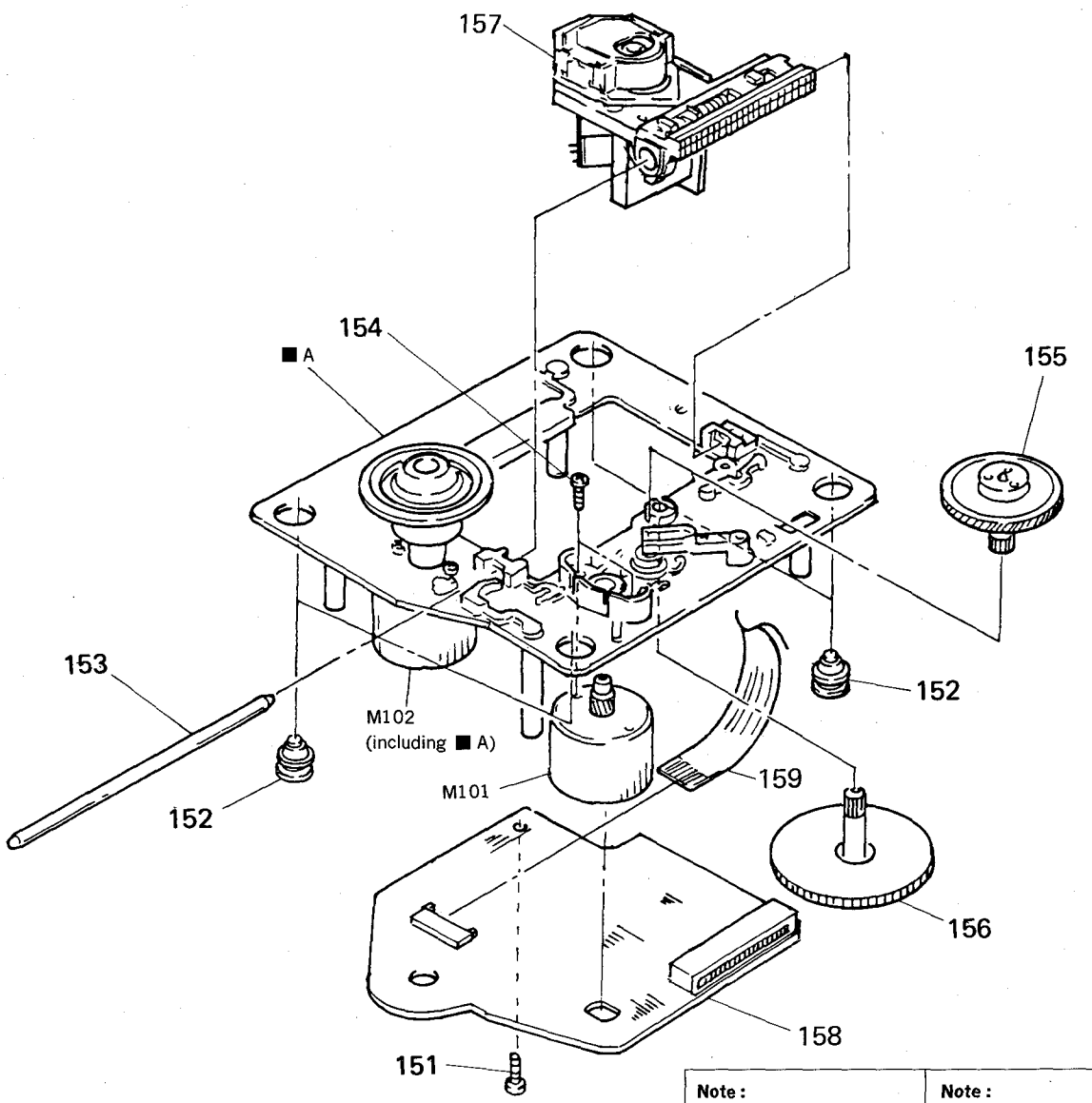
4-3. MD BLOCK (CDM14-5BD1) SECTION



Ref. No.	Part No.	Description	Remark
101	4-933-111-01	CHASSIS (MD)	
102	7-621-775-10	SCREW +B 2.6X4	
* 103	4-917-583-21	BRACKET, YOKE	
104	4-927-649-01	BELT	
105	4-933-109-01	CAM	
106	4-927-651-01	PULLEY (S)	
107	4-927-628-01	GEAR (C)	
108	4-933-107-01	GEAR (PL)	
109	4-933-112-01	TABLE, DISK	
110	4-933-110-01	HOLDER (MG)	

Ref. No.	Part No.	Description	Remark
* 111	1-452-538-11	MAGNET	
112	4-933-134-01	SCREW (+PTPWH M2.6X6)	
113	4-948-503-01	SPRING (BU), COMPRESSION	
114	4-933-129-01	HOLDER (BU)	
115	4-933-108-01	SHAFT (CAM)	
* 116	1-632-202-11	LOADING BOARD	
M191	A-4604-363-A	MOTOR (L) ASSY (LOADING)	

4-4. OPTICAL PICK-UP BLOCK (BU-5BD1) ASSEMBLY



Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note :
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
151	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
152	4-933-126-01	INSULATOR (A)	
153	4-917-565-01	SHAFT, SLED	
154	7-621-255-15	SCREW +P 2X3	
155	4-917-567-01	GEAR (M)	
156	4-917-564-01	GEAR (P), FLATNESS	
⚠157	8-848-144-11	DEVICE, OPTICAL KSS-240A	
* 158	A-4617-161-A	BD BOARD, COMPLETE	
159	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-523-3	MOTOR ASSY (SLED)	
M102	X-4917-504-1	MOTOR ASSY (SPINDLE)	

BD

SECTION 5
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description		Remark
*	A-4617-161-A	BD BOARD, COMPLETE		
		**********		
		< CAPACITOR >		
C101	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C102	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	
C103	1-126-163-11	ELECT 4.7uF	20% 50V	
C104	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C105	1-126-154-11	ELECT 47uF	20% 6.3V	
C106	1-126-154-11	ELECT 47uF	20% 6.3V	
C107	1-126-154-11	ELECT 47uF	20% 6.3V	
C108	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C109	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C110	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	
C111	1-131-367-00	TANTALUM 22uF	10% 20V	
C112	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C113	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C114	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	
C115	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	
C117	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C118	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C119	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	
C120	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	
C151	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V	
C152	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C153	1-163-006-11	CERAMIC CHIP 560PF	10% 50V	
C154	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	
C155	1-163-023-00	CERAMIC CHIP 0.015uF	5% 50V	
C171	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C172	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C173	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C174	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
		< CONNECTOR >		
CN101	1-568-796-11	SOCKET, CONNECTOR 22P		
CN102	1-568-795-11	SOCKET, CONNECTOR 12P		
CN103	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P		

Ref. No.	Part No.	Description		Remark
		< DIODE >		
D101	8-719-021-25	DIODE UZM4.7X-T1		
		< IC >		
IC101	8-752-055-73	IC CXA1372AQ		
IC102	8-759-822-36	IC LA6532M		
IC103	8-759-633-65	IC M54641L		
		< JACK >		
J101	1-216-295-00	METAL CHIP 0	5% 1/10W	
J102	1-216-295-00	METAL CHIP 0	5% 1/10W	
		< TRANSISTOR >		
Q101	8-729-901-01	TRANSISTOR DTC144EK		
		< RESISTOR >		
R101	1-216-097-00	METAL CHIP 100K	5% 1/10W	
R102	1-216-095-00	METAL CHIP 82K	5% 1/10W	
R103	1-216-091-00	METAL CHIP 56K	5% 1/10W	
R104	1-216-099-00	METAL CHIP 120K	5% 1/10W	
R105	1-216-069-00	METAL CHIP 6.8K	5% 1/10W	
R106	1-216-061-00	METAL CHIP 3.3K	5% 1/10W	
R107	1-216-114-00	METAL GLAZE 510K	5% 1/10W	
R108	1-216-105-00	METAL CHIP 220K	5% 1/10W	
R109	1-216-061-00	METAL CHIP 3.3K	5% 1/10W	
R110	1-216-049-00	METAL CHIP 1K	5% 1/10W	
R111	1-216-049-00	METAL CHIP 1K	5% 1/10W	
R112	1-216-083-00	METAL CHIP 27K	5% 1/10W	
R113	1-216-071-00	METAL CHIP 8.2K	5% 1/10W	
R114	1-216-105-00	METAL CHIP 220K	5% 1/10W	
R152	1-216-073-00	METAL CHIP 10K	5% 1/10W	
R153	1-216-085-00	METAL CHIP 33K	5% 1/10W	
R154	1-216-085-00	METAL CHIP 33K	5% 1/10W	
R155	1-216-093-00	METAL CHIP 68K	5% 1/10W	
R156	1-216-081-00	METAL CHIP 22K	5% 1/10W	
R157	1-216-079-00	METAL CHIP 18K	5% 1/10W	

Ref. No.	Part No.	Description			Remark
R158	1-216-079-00	METAL CHIP	18K	5%	1/10W
R159	1-216-079-00	METAL CHIP	18K	5%	1/10W
R160	1-216-049-00	METAL CHIP	1K	5%	1/10W
R171	1-216-001-00	METAL CHIP	10	5%	1/10W
R172	1-216-001-00	METAL CHIP	10	5%	1/10W
R173	1-216-001-00	METAL CHIP	10	5%	1/10W
R174	1-216-001-00	METAL CHIP	10	5%	1/10W
		< VARIABLE RESISTOR >			
RV101	1-241-630-11	RES, ADJ, CARBON 10K			
RV102	1-241-630-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			

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*	1-637-176-11	DISP BOARD			
		**********			
*	4-923-532-31	SPACER, LED			
		< CAPACITOR >			
C401	1-164-159-11	CERAMIC	0.1uF		50V
C402	1-164-159-11	CERAMIC	0.1uF		50V
C403	1-164-159-11	CERAMIC	0.1uF		50V
C404	1-164-159-11	CERAMIC	0.1uF		50V
C405	1-126-154-11	ELECT	47uF	20%	6.3V
		< CONNECTOR >			
CN401	1-535-878-11	JUMPER, FILM (WITH TERMINAL)			
		< DIODE >			
D401	8-719-987-97	DIODE BR3371X			
		< FLUORECENT INDICATOR >			
FLD401	1-519-611-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC401	8-752-832-05	IC CXP50112-256Q			
		< RESISTOR >			
R401	1-249-425-11	CARBON	4.7K	5%	1/4W
R402	1-249-425-11	CARBON	4.7K	5%	1/4W
R403	1-249-433-11	CARBON	22K	5%	1/4W
R404	1-249-433-11	CARBON	22K	5%	1/4W
R405	1-249-411-11	CARBON	330	5%	1/4W
R406	1-249-411-11	CARBON	330	5%	1/4W
R407	1-249-433-11	CARBON	22K	5%	1/4W
R408	1-249-433-11	CARBON	22K	5%	1/4W
R409	1-249-433-11	CARBON	22K	5%	1/4W
R411	1-249-433-11	CARBON	22K	5%	1/4W
R412	1-249-433-11	CARBON	22K	5%	1/4W
R413	1-249-433-11	CARBON	22K	5%	1/4W
R414	1-249-433-11	CARBON	22K	5%	1/4W
R415	1-249-433-11	CARBON	22K	5%	1/4W
R416	1-249-433-11	CARBON	22K	5%	1/4W
R417	1-249-433-11	CARBON	22K	5%	1/4W
R418	1-249-433-11	CARBON	22K	5%	1/4W
R419	1-249-433-11	CARBON	22K	5%	1/4W
R420	1-249-433-11	CARBON	22K	5%	1/4W
		< SWITCH >			
S406	1-554-303-21	SWITCH, TACTILE (1)			
S407	1-554-303-21	SWITCH, TACTILE (2)			
S408	1-554-303-21	SWITCH, TACTILE (3)			
S409	1-554-303-21	SWITCH, TACTILE (4)			
S410	1-554-303-21	SWITCH, TACTILE (5)			
S411	1-554-303-21	SWITCH, TACTILE (6)			
S412	1-554-303-21	SWITCH, TACTILE (7)			
S413	1-554-303-21	SWITCH, TACTILE (8)			
S414	1-554-303-21	SWITCH, TACTILE (9)			
S415	1-554-303-21	SWITCH, TACTILE (10)			
S416	1-554-303-21	SWITCH, TACTILE (11)			
S417	1-554-303-21	SWITCH, TACTILE (12)			
S418	1-554-303-21	SWITCH, TACTILE (CHECK)			
S419	1-554-303-21	SWITCH, TACTILE (CLEAR)			
S420	1-554-303-21	SWITCH, TACTILE (>12)			
S421	1-554-303-21	SWITCH, TACTILE (ON/OFF (PITCH CONTROL))			
S422	1-554-303-21	SWITCH, TACTILE (- (PITCH CONTROL))			
S423	1-554-303-21	SWITCH, TACTILE (+ (PITCH CONTROL))			
S424	1-554-303-21	SWITCH, TACTILE (TIME)			
S425	1-554-303-21	SWITCH, TACTILE (⏮/◀◀)			
S426	1-554-303-21	SWITCH, TACTILE (▶▶/⏭)			
S427	1-554-303-21	SWITCH, TACTILE (⏏OPEN/CLOSE)			
S428	1-554-303-21	SWITCH, TACTILE (VOCAL REDUCTION)			
S429	1-554-303-21	SWITCH, TACTILE (▷)			
S430	1-554-303-21	SWITCH, TACTILE (❚❚)			
S431	1-554-303-21	SWITCH, TACTILE (■)			
		< VIBRATOR >			
X401	1-577-082-11	VIBRATOR, CERAMIC			

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HEADPHONE LED LOADING MAIN

Ref. No.	Part No.	Description			Remark
*	1-637-175-11	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C501	1-162-294-31	CERAMIC	0.001uF	10%	50V
C502	1-162-294-31	CERAMIC	0.001uF	10%	50V
C503	1-164-159-11	CERAMIC	0.1uF		50V
C504	1-124-465-00	ELECT	0.47uF	20%	50V
C535	1-124-589-11	ELECT	47uF	20%	16V
C536	1-124-589-11	ELECT	47uF	20%	16V
		< CONNECTOR >			
* CNP501	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
* CNP502	1-564-337-00	PIN, CONNECTOR 3P			
		< IC >			
IC501	8-759-700-74	IC RC4556S			
		< JACK >			
J501	1-507-796-71	JACK (HEADPHONES)			
		< RESISTOR >			
R501	1-249-417-11	CARBON	1K	5%	1/4W
R502	1-249-423-11	CARBON	3.3K	5%	1/4W
R503	1-249-431-11	CARBON	15K	5%	1/4W
R504	1-249-402-11	CARBON	56	5%	1/4W
R505	1-249-417-11	CARBON	1K	5%	1/4W
R506	1-249-423-11	CARBON	3.3K	5%	1/4W
R507	1-249-431-11	CARBON	15K	5%	1/4W
R508	1-249-402-11	CARBON	56	5%	1/4W
R509	1-249-417-11	CARBON	1K	5%	1/4W
R546	1-249-429-11	CARBON	10K	5%	1/4W
		< VARIABLE RESISTOR >			
RV501	1-238-487-11	RES, VAR, CARBON 20K/20K			
RV501	1-238-487-11		(HEADPHONES LEVEL)		
RV502	1-241-311-11	RES, VAR, CARBON 50K (WITH SW)			
RV502	1-241-311-11		(DIGITAL ECHO)		
**********					
*	1-637-178-11	LED BOARD			
		*********			
		< DIODE >			
D402	8-719-987-97	DIODE BR3371X			
**********					

Ref. No.	Part No.	Description			Remark
*	1-632-202-11	LOADING BOARD			
		**********			
		< CONNECTOR >			
* CN301	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< SWITCH >			
S271	1-572-086-11	SWITCH, LEAF (LOAD OUT)			
S272	1-572-086-11	SWITCH, LEAF (LOAD IN)			
**********					
*	A-4617-910-A	MAIN BOARD, COMPLETE (US, Canadian)			
		**********			
*	A-4617-647-A	MAIN BOARD, COMPLETE (AEP, UK)			
		**********			
*	A-4617-651-A	MAIN BOARD, COMPLETE (E)			
		**********			
	7-682-147-15	SCREW, TR			
*	4-908-502-01	HEAT SINK			
		< CAPACITOR >			
C201	1-126-937-11	ELECT	4700uF	20%	16V
C202	1-126-937-11	ELECT	4700uF	20%	16V
C203	1-124-572-11	ELECT	100uF	20%	63V
C204	1-126-059-11	ELECT	10uF	20%	50V
C205	1-126-024-11	ELECT	220uF	20%	16V
C206	1-126-024-11	ELECT	220uF	20%	16V
C207	1-126-301-11	ELECT	1uF	20%	50V
C208	1-126-059-11	ELECT	10uF	20%	50V
C209	1-126-059-11	ELECT	10uF	20%	50V
C210	1-126-012-11	ELECT	470uF	20%	16V
C211	1-126-012-11	ELECT	470uF	20%	16V
C212	1-164-159-11	CERAMIC	0.1uF		50V
C301	1-162-208-31	CERAMIC	24PF	5%	50V
C302	1-162-206-31	CERAMIC	20PF	5%	50V
C303	1-164-159-11	CERAMIC	0.1uF		50V
C304	1-124-994-11	ELECT	100uF	20%	10V
C305	1-126-301-11	ELECT	1uF	20%	50V
C306	1-164-159-11	CERAMIC	0.1uF		50V
C307	1-161-374-11	CERAMIC	0.0015uF	20%	50V
C308	1-164-159-11	CERAMIC	0.1uF		50V
C309	1-162-306-11	CERAMIC	0.01uF	20%	16V
C310	1-126-300-11	ELECT	0.47uF	20%	50V
C311	1-136-161-00	FILM	0.047uF	5%	50V
C313	1-164-159-11	CERAMIC	0.1uF		50V
C314	1-126-162-11	ELECT	3.3uF	20%	50V

Ref. No.	Part No.	Description			Remark
R375	1-249-411-11	CARBON	330	5%	1/4W
R376	1-249-414-11	CARBON	560	5%	1/4W
R377	1-249-423-11	CARBON	3.3K	5%	1/4W
R378	1-249-433-11	CARBON	22K	5%	1/4W
R379	1-249-441-11	CARBON	100K	5%	1/4W
R380	1-249-417-11	CARBON	1K	5%	1/4W
R382	1-249-441-11	CARBON	100K	5%	1/4W
R383	1-249-405-11	CARBON	100	5%	1/4W
R384	1-249-405-11	CARBON	100	5%	1/4W
R385	1-249-415-11	CARBON	680	5%	1/4W
R386	1-249-425-11	CARBON	4.7K	5%	1/4W
R387	1-249-441-11	CARBON	100K	5%	1/4W
R388	1-249-429-11	CARBON	10K	5%	1/4W
R389	1-249-423-11	CARBON	3.3K	5%	1/4W
R390	1-249-429-11	CARBON	10K	5%	1/4W
R392	1-249-425-11	CARBON	4.7K	5%	1/4W
R393	1-249-425-11	CARBON	4.7K	5%	1/4W
R394	1-249-429-11	CARBON	10K	5%	1/4W
R395	1-249-429-11	CARBON	10K	5%	1/4W
R396	1-249-425-11	CARBON	4.7K	5%	1/4W
R397	1-249-425-11	CARBON	4.7K	5%	1/4W
R398	1-249-417-11	CARBON	1K	5%	1/4W
R399	1-249-433-11	CARBON	22K	5%	1/4W
		< SWITCH >			
SW201	1-571-722-11	SWITCH, VOLTAGE SELECTION (E)			
		< VIBRATOR >			
X301	1-567-908-11	VIBRATOR, CRYSTAL			

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* A-4617-650-A MICROPHONE BOARD, COMPLETE

****

< CAPACITOR >

C505	1-126-301-11	ELECT	1uF	20%	50V
C506	1-162-294-31	CERAMIC	0.001uF	10%	50V
C507	1-162-290-31	CERAMIC	470PF	10%	50V
C508	1-126-300-11	ELECT	0.47uF	20%	50V
C509	1-126-301-11	ELECT	1uF	20%	50V
C510	1-162-294-31	CERAMIC	0.001uF	10%	50V
C511	1-162-290-31	CERAMIC	470PF	10%	50V
C512	1-126-300-11	ELECT	0.47uF	20%	50V
C513	1-124-994-11	ELECT	100uF	20%	10V
C514	1-124-994-11	ELECT	100uF	20%	10V
C515	1-126-301-11	ELECT	1uF	20%	50V
C516	1-126-301-11	ELECT	1uF	20%	50V
C517	1-130-474-00	MYLAR	0.0018uF	5%	50V
C518	1-162-306-11	CERAMIC	0.01uF	20%	16V
C519	1-164-159-11	CERAMIC	0.1uF		50V
C520	1-136-165-00	FILM	0.1uF	5%	50V
C521	1-136-165-00	FILM	0.1uF	5%	50V
C522	1-164-159-11	CERAMIC	0.1uF		50V
C524	1-126-301-11	ELECT	1uF	20%	50V
C525	1-126-177-11	ELECT	100uF	20%	10V
C526	1-124-910-11	ELECT	47uF	20%	50V
C527	1-126-163-11	ELECT	4.7uF	20%	50V
C528	1-136-165-00	FILM	0.1uF	5%	50V
C529	1-162-282-31	CERAMIC	100PF	10%	50V
C530	1-124-465-00	ELECT	0.47uF	20%	50V
C531	1-136-165-00	FILM	0.1uF	5%	50V
C532	1-161-329-00	CERAMIC	0.0068uF	30%	16V
C533	1-162-215-31	CERAMIC	47PF	5%	50V
C534	1-164-159-11	CERAMIC	0.1uF		50V

< CONNECTOR >

* CNP503	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	

< DIODE >

D501	8-719-107-94	DIODE	1SS202-1
D502	8-719-107-94	DIODE	1SS202-1
D503	8-719-107-94	DIODE	1SS202-1

< IC >

IC502	8-759-634-50	IC	M5218AL
IC503	8-759-634-50	IC	M5218AL
IC504	8-759-604-81	IC	M50195P
IC505	8-759-821-13	IC	LM3364K-15
IC506	8-759-700-48	IC	LM2903S

< JACK >

J502	1-507-854-00	JACK, PHONE (MIC 1)
J503	1-507-854-00	JACK, PHONE (MIC 2)

< TRANSISTOR >

Q501	8-729-900-65	TRANSISTOR	DTA144ES
Q502	8-729-900-65	TRANSISTOR	DTA144ES
Q503	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q504	8-729-141-30	TRANSISTOR	2SC3623A-LK

< RESISTOR >

R510	1-249-429-11	CARBON	10K	5%	1/4W
R511	1-249-411-11	CARBON	330	5%	1/4W
R512	1-249-429-11	CARBON	10K	5%	1/4W

MICROPHONE SW

Ref. No.	Part No.	Description			Remark
R513	1-249-413-11	CARBON	470	5%	1/4W
R514	1-249-431-11	CARBON	15K	5%	1/4W
R515	1-249-429-11	CARBON	10K	5%	1/4W
R516	1-249-411-11	CARBON	330	5%	1/4W
R517	1-249-429-11	CARBON	10K	5%	1/4W
R518	1-249-413-11	CARBON	470	5%	1/4W
R519	1-249-431-11	CARBON	15K	5%	1/4W
R520	1-249-429-11	CARBON	10K	5%	1/4W
R521	1-249-425-11	CARBON	4.7K	5%	1/4W
R522	1-249-429-11	CARBON	10K	5%	1/4W
R523	1-249-437-11	CARBON	47K	5%	1/4W
R524	1-249-437-11	CARBON	47K	5%	1/4W
R525	1-249-429-11	CARBON	10K	5%	1/4W
R526	1-249-433-11	CARBON	22K	5%	1/4W
R527	1-249-433-11	CARBON	22K	5%	1/4W
R528	1-249-429-11	CARBON	10K	5%	1/4W
R529	1-249-423-11	CARBON	3.3K	5%	1/4W
R530	1-249-433-11	CARBON	22K	5%	1/4W
R531	1-249-421-11	CARBON	2.2K	5%	1/4W
R532	1-249-441-11	CARBON	100K	5%	1/4W
R533	1-249-435-11	CARBON	33K	5%	1/4W
R534	1-249-425-11	CARBON	4.7K	5%	1/4W
R535	1-249-423-11	CARBON	3.3K	5%	1/4W
R536	1-249-437-11	CARBON	47K	5%	1/4W
R537	1-249-433-11	CARBON	22K	5%	1/4W
R538	1-249-440-11	CARBON	82K	5%	1/4W
R539	1-249-429-11	CARBON	10K	5%	1/4W
R540	1-249-421-11	CARBON	2.2K	5%	1/4W
R541	1-249-433-11	CARBON	22K	5%	1/4W
R542	1-247-903-00	CARBON	1M	5%	1/4W
R545	1-249-441-11	CARBON	100K	5%	1/4W
		< VARIABLE RESISTOR >			
RV503	1-241-310-11	RES, VAR, CARBON 50K/50K			
		< VIBRATOR >			
X501	1-577-082-11	VIBRATOR, CERAMIC			

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*	1-637-177-11	SW BOARD			
		********			
		< CAPACITOR >			
C406	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CNP402	1-564-339-00	PIN, CONNECTOR 5P	
* CNP403	1-564-338-00	PIN, CONNECTOR 4P	
* CNP404	1-564-339-61	PIN, CONNECTOR 5P	
* CNP405	1-564-336-00	PIN, CONNECTOR 2P	
		< IC >	
IC402	8-749-920-83	IC GP1U52XB	
		< SWITCH >	
S401	1-570-157-51	SWITCH, SLIDE (AUTO PAUSE)	
S402	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)	
S403	1-554-303-21	SWITCH, TACTILE (REPEAT(PLAY MODE))	
S404	1-554-303-21	SWITCH, TACTILE (SHUFFLE(PLAY MODE))	
S405	1-554-303-21	SWITCH, TACTILE (PROGRAM(PLAY MODE))	

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		MISCELLANEOUS	
		************	
⚠12	1-590-836-11	CORD, POWER (US, Canadian)	
⚠18	1-558-943-41	CORD, POWER (E)	
19	1-575-160-11	WIRE, FLAT TYPE (22 CORE)	
⚠20	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
⚠21	1-575-651-21	CORD, POWER (AEP)	
⚠22	1-558-946-21	CORD, POWER (UK)	
* 111	1-452-538-11	MAGNET	
⚠157	8-848-144-11	DEVICE, OPTICAL KSS-240A	
159	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-523-3	MOTOR ASSY (SLED)	
M102	X-4917-504-1	MOTOR ASSY (SPINDLE)	
M191	A-4604-363-A	MOTOR (L) ASSY (LOADING)	
⚠T901	1-449-921-11	TRANSFORMER, POWER (US, Canadian)	
⚠T901	1-449-922-11	TRANSFORMER, POWER (AEP, UK)	
⚠T901	1-449-923-11	TRANSFORMER, POWER (E)	

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The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
C316	1-162-294-31	CERAMIC	0.001uF	10%	50V
C318	1-164-159-11	CERAMIC	0.1uF		50V
C319	1-164-159-11	CERAMIC	0.1uF		50V
C320	1-164-159-11	CERAMIC	0.1uF		50V
C321	1-126-012-11	ELECT	470uF	20%	16V
C322	1-126-012-11	ELECT	470uF	20%	16V
C323	1-130-481-00	MYLAR	0.0068uF	5%	50V
C324	1-130-475-00	MYLAR	0.0022uF	5%	50V
C325	1-130-481-00	MYLAR	0.0068uF	5%	50V
C326	1-130-475-00	MYLAR	0.0022uF	5%	50V
C327	1-130-485-00	MYLAR	0.015uF	5%	50V
C328	1-130-482-00	MYLAR	0.0082uF	5%	50V
C329	1-130-485-00	MYLAR	0.015uF	5%	50V
C330	1-130-482-00	MYLAR	0.0082uF	5%	50V
C331	1-124-910-11	ELECT	47uF	20%	50V
C332	1-124-910-11	ELECT	47uF	20%	50V
C333	1-126-059-11	ELECT	10uF	20%	50V
C334	1-126-059-11	ELECT	10uF	20%	50V
C335	1-164-159-11	CERAMIC	0.1uF		50V
C336	1-164-159-11	CERAMIC	0.1uF		50V
C337	1-164-159-11	CERAMIC	0.1uF		50V
C338	1-164-159-11	CERAMIC	0.1uF		50V
C339	1-164-159-11	CERAMIC	0.1uF		50V
C340	1-126-049-11	ELECT	22uF	20%	25V
C341	1-126-049-11	ELECT	22uF	20%	25V
C342	1-130-471-00	MYLAR	0.001uF	5%	50V
C343	1-130-471-00	MYLAR	0.001uF	5%	50V
C344	1-124-994-11	ELECT	100uF	20%	10V
C345	1-124-994-11	ELECT	100uF	20%	10V
C346	1-124-994-11	ELECT	100uF	20%	10V
C347	1-164-159-11	CERAMIC	0.1uF		50V
C348	1-126-157-11	ELECT	10uF	20%	16V
C391	1-124-910-11	ELECT	47uF	20%	50V
C392	1-162-199-31	CERAMIC	10PF	5%	50V
C395	1-162-207-31	CERAMIC	22PF	5%	50V (Canadian, AEP, UK, E)

< CONNECTOR >

* CNP201	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	
* CNP301	1-568-844-11	SOCKET, CONNECTOR 29P	
* CNP302	1-568-822-11	SOCKET, CONNECTOR 22P	
* CNP303	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
* CNP304	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	

< TRIMMER >

CT301	1-141-227-00	CAP, TRIMMER	20PF

Ref. No.	Part No.	Description		Remark

< DIODE >

D201	8-719-200-82	DIODE	1ES2	
D202	8-719-200-82	DIODE	1ES2	
D203	8-719-200-82	DIODE	1ES2	
D204	8-719-200-82	DIODE	1ES2	
D205	8-719-200-82	DIODE	1ES2	
D206	8-719-200-82	DIODE	1ES2	
D207	8-719-109-85	DIODE	RD5.1ES-B2	
D208	8-719-933-51	DIODE	HZS7C3L	
D209	8-719-109-97	DIODE	RD6.8ES-B2	
D301	8-719-107-94	DIODE	1SS202-1	

< IC >

IC201	8-759-630-21	IC	M5290P-16	
IC202	8-759-633-42	IC	M5293L	
IC301	8-752-337-26	IC	CXD2500AQ	
IC302	8-752-337-09	IC	CXD2554P	
IC303	8-759-917-18	IC	SN74HCU04AN	
IC304	8-759-998-22	IC	PCM56P	
IC305	8-759-998-22	IC	PCM56P	
IC306	8-759-501-96	IC	BA7042	
IC307	8-759-605-44	IC	M74HC6004P	
IC308	8-759-945-58	IC	RC4558P	
IC309	8-759-945-58	IC	RC4558P	
IC310	8-759-945-58	IC	RC4558P	
IC311	8-759-945-58	IC	RC4558P	
IC312	8-759-945-58	IC	RC4558P	
IC313	8-759-000-49	IC	MC14066BCP	
IC314	8-759-945-58	IC	RC4558P	

< JACK >

J301	1-569-442-11	JACK, PIN 2P (LINE OUT)	

< IC LINK >

PS201	1-532-637-00	LINK, IC	1.0A (AEP, UK, E)
PS202	1-532-637-00	LINK, IC	1.0A (AEP, UK, E)

< TRANSISTOR >

Q201	8-729-141-83	TRANSISTOR	2SB1094-LK
Q202	8-729-808-77	TRANSISTOR	2SD1913SA-R
Q203	8-729-141-83	TRANSISTOR	2SB1094-LK
Q204	8-729-230-45	TRANSISTOR	2SC2458-YGR
Q205	8-729-900-89	TRANSISTOR	DTC144ES
Q206	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q207	8-729-900-89	TRANSISTOR	DTC144ES
Q301	8-729-900-89	TRANSISTOR	DTC144ES
Q302	8-729-900-65	TRANSISTOR	DTA144ES
Q303	8-729-900-65	TRANSISTOR	DTA144ES

MAIN

Ref. No.	Part No.	Description				Remark
Q305	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q306	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q307	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q308	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q309	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q310	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q311	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q312	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q314	8-729-900-65	TRANSISTOR	DTA144ES			
Q315	8-729-900-65	TRANSISTOR	DTA144ES			
Q316	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q317	8-729-141-30	TRANSISTOR	2SC3623A-LK			
		< RESISTOR >				
R201	1-249-425-11	CARBON	4.7K	5%	1/4W	
R202	1-249-425-11	CARBON	4.7K	5%	1/4W	
R203	1-249-438-11	CARBON	56K	5%	1/4W	
R204	1-249-429-11	CARBON	10K	5%	1/4W	
R205	1-249-425-11	CARBON	4.7K	5%	1/4W	
R206	1-249-417-11	CARBON	1K	5%	1/4W	
R207	1-249-429-11	CARBON	10K	5%	1/4W	
R208	1-249-411-11	CARBON	330	5%	1/4W	
R209	1-249-410-11	CARBON	270	5%	1/4W	
R210	1-249-423-11	CARBON	3.3K	5%	1/4W	
R211	1-249-435-11	CARBON	33K	5%	1/4W	
R301	1-249-417-11	CARBON	1K	5%	1/4W	
R302	1-249-417-11	CARBON	1K	5%	1/4W	
R303	1-249-417-11	CARBON	1K	5%	1/4W	
R304	1-249-417-11	CARBON	1K	5%	1/4W	
R305	1-249-413-11	CARBON	470	5%	1/4W	(US)
R305	1-249-411-11	CARBON	330	5%	1/4W	(Canadian, AEP, UK, E)
R306	1-249-417-11	CARBON	1K	5%	1/4W	
R307	1-249-417-11	CARBON	1K	5%	1/4W	
R308	1-249-417-11	CARBON	1K	5%	1/4W	
R309	1-249-429-11	CARBON	10K	5%	1/4W	
R310	1-249-441-11	CARBON	100K	5%	1/4W	
R311	1-249-423-11	CARBON	3.3K	5%	1/4W	
R312	1-249-423-11	CARBON	3.3K	5%	1/4W	
R313	1-249-429-11	CARBON	10K	5%	1/4W	
R319	1-249-425-11	CARBON	4.7K	5%	1/4W	
R320	1-249-411-11	CARBON	330	5%	1/4W	
R321	1-249-441-11	CARBON	100K	5%	1/4W	
R322	1-249-433-11	CARBON	22K	5%	1/4W	
R323	1-249-411-11	CARBON	330	5%	1/4W	
R324	1-249-411-11	CARBON	330	5%	1/4W	
R325	1-249-411-11	CARBON	330	5%	1/4W	
R326	1-249-413-11	CARBON	470	5%	1/4W	
R327	1-249-413-11	CARBON	470	5%	1/4W	
R328	1-249-417-11	CARBON	1K	5%	1/4W	
R329	1-249-417-11	CARBON	1K	5%	1/4W	
R330	1-249-441-11	CARBON	100K	5%	1/4W	
R331	1-249-441-11	CARBON	100K	5%	1/4W	
R332	1-249-435-11	CARBON	33K	5%	1/4W	
R333	1-249-429-11	CARBON	10K	5%	1/4W	
R334	1-249-435-11	CARBON	33K	5%	1/4W	
R335	1-249-429-11	CARBON	10K	5%	1/4W	
R336	1-249-441-11	CARBON	100K	5%	1/4W	
R337	1-249-425-11	CARBON	4.7K	5%	1/4W	
R338	1-249-429-11	CARBON	10K	5%	1/4W	
R339	1-249-425-11	CARBON	4.7K	5%	1/4W	
R340	1-249-429-11	CARBON	10K	5%	1/4W	
R341	1-249-425-11	CARBON	4.7K	5%	1/4W	
R342	1-249-417-11	CARBON	1K	5%	1/4W	
R343	1-249-417-11	CARBON	1K	5%	1/4W	
R344	1-249-425-11	CARBON	4.7K	5%	1/4W	
R345	1-249-425-11	CARBON	4.7K	5%	1/4W	
R346	1-249-429-11	CARBON	10K	5%	1/4W	
R347	1-249-425-11	CARBON	4.7K	5%	1/4W	
R348	1-249-425-11	CARBON	4.7K	5%	1/4W	
R349	1-249-429-11	CARBON	10K	5%	1/4W	
R350	1-249-425-11	CARBON	4.7K	5%	1/4W	
R351	1-249-441-11	CARBON	100K	5%	1/4W	
R352	1-249-441-11	CARBON	100K	5%	1/4W	
R353	1-249-429-11	CARBON	10K	5%	1/4W	
R354	1-249-429-11	CARBON	10K	5%	1/4W	
R355	1-249-435-11	CARBON	33K	5%	1/4W	
R356	1-249-435-11	CARBON	33K	5%	1/4W	
R357	1-249-441-11	CARBON	100K	5%	1/4W	
R358	1-249-441-11	CARBON	100K	5%	1/4W	
R359	1-249-441-11	CARBON	100K	5%	1/4W	
R360	1-249-417-11	CARBON	1K	5%	1/4W	
R361	1-249-423-11	CARBON	3.3K	5%	1/4W	
R362	1-249-411-11	CARBON	330	5%	1/4W	
R363	1-249-411-11	CARBON	330	5%	1/4W	
R364	1-249-436-11	CARBON	39K	5%	1/4W	
R365	1-249-429-11	CARBON	10K	5%	1/4W	
R366	1-249-441-11	CARBON	100K	5%	1/4W	
R367	1-249-411-11	CARBON	330	5%	1/4W	
R368	1-249-414-11	CARBON	560	5%	1/4W	
R369	1-249-433-11	CARBON	22K	5%	1/4W	
R370	1-249-423-11	CARBON	3.3K	5%	1/4W	
R371	1-249-429-11	CARBON	10K	5%	1/4W	
R372	1-249-429-11	CARBON	10K	5%	1/4W	
R373	1-249-436-11	CARBON	39K	5%	1/4W	
R374	1-249-441-11	CARBON	100K	5%	1/4W	

MAIN

Ref. No.	Part No.	Description				Remark
Q305	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q306	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q307	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q308	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q309	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q310	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q311	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q312	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q314	8-729-900-65	TRANSISTOR	DTA144ES			
Q315	8-729-900-65	TRANSISTOR	DTA144ES			
Q316	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q317	8-729-141-30	TRANSISTOR	2SC3623A-LK			
		< RESISTOR >				
R201	1-249-425-11	CARBON	4.7K	5%	1/4W	
R202	1-249-425-11	CARBON	4.7K	5%	1/4W	
R203	1-249-438-11	CARBON	56K	5%	1/4W	
R204	1-249-429-11	CARBON	10K	5%	1/4W	
R205	1-249-425-11	CARBON	4.7K	5%	1/4W	
R206	1-249-417-11	CARBON	1K	5%	1/4W	
R207	1-249-429-11	CARBON	10K	5%	1/4W	
R208	1-249-411-11	CARBON	330	5%	1/4W	
R209	1-249-410-11	CARBON	270	5%	1/4W	
R210	1-249-423-11	CARBON	3.3K	5%	1/4W	
R211	1-249-435-11	CARBON	33K	5%	1/4W	
R301	1-249-417-11	CARBON	1K	5%	1/4W	
R302	1-249-417-11	CARBON	1K	5%	1/4W	
R303	1-249-417-11	CARBON	1K	5%	1/4W	
R304	1-249-417-11	CARBON	1K	5%	1/4W	
R305	1-249-413-11	CARBON	470	5%	1/4W	(US)
R305	1-249-411-11	CARBON	330	5%	1/4W	(Canadian, AEP, UK, E)
R306	1-249-417-11	CARBON	1K	5%	1/4W	
R307	1-249-417-11	CARBON	1K	5%	1/4W	
R308	1-249-417-11	CARBON	1K	5%	1/4W	
R309	1-249-429-11	CARBON	10K	5%	1/4W	
R310	1-249-441-11	CARBON	100K	5%	1/4W	
R311	1-249-423-11	CARBON	3.3K	5%	1/4W	
R312	1-249-423-11	CARBON	3.3K	5%	1/4W	
R313	1-249-429-11	CARBON	10K	5%	1/4W	
R319	1-249-425-11	CARBON	4.7K	5%	1/4W	
R320	1-249-411-11	CARBON	330	5%	1/4W	
R321	1-249-441-11	CARBON	100K	5%	1/4W	
R322	1-249-433-11	CARBON	22K	5%	1/4W	
R323	1-249-411-11	CARBON	330	5%	1/4W	
R324	1-249-411-11	CARBON	330	5%	1/4W	
R325	1-249-411-11	CARBON	330	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R326	1-249-413-11	CARBON	470	5%	1/4W	
R327	1-249-413-11	CARBON	470	5%	1/4W	
R328	1-249-417-11	CARBON	1K	5%	1/4W	
R329	1-249-417-11	CARBON	1K	5%	1/4W	
R330	1-249-441-11	CARBON	100K	5%	1/4W	
R331	1-249-441-11	CARBON	100K	5%	1/4W	
R332	1-249-435-11	CARBON	33K	5%	1/4W	
R333	1-249-429-11	CARBON	10K	5%	1/4W	
R334	1-249-435-11	CARBON	33K	5%	1/4W	
R335	1-249-429-11	CARBON	10K	5%	1/4W	
R336	1-249-441-11	CARBON	100K	5%	1/4W	
R337	1-249-425-11	CARBON	4.7K	5%	1/4W	
R338	1-249-429-11	CARBON	10K	5%	1/4W	
R339	1-249-425-11	CARBON	4.7K	5%	1/4W	
R340	1-249-429-11	CARBON	10K	5%	1/4W	
R341	1-249-425-11	CARBON	4.7K	5%	1/4W	
R342	1-249-417-11	CARBON	1K	5%	1/4W	
R343	1-249-417-11	CARBON	1K	5%	1/4W	
R344	1-249-425-11	CARBON	4.7K	5%	1/4W	
R345	1-249-425-11	CARBON	4.7K	5%	1/4W	
R346	1-249-429-11	CARBON	10K	5%	1/4W	
R347	1-249-425-11	CARBON	4.7K	5%	1/4W	
R348	1-249-425-11	CARBON	4.7K	5%	1/4W	
R349	1-249-429-11	CARBON	10K	5%	1/4W	
R350	1-249-425-11	CARBON	4.7K	5%	1/4W	
R351	1-249-441-11	CARBON	100K	5%	1/4W	
R352	1-249-441-11	CARBON	100K	5%	1/4W	
R353	1-249-429-11	CARBON	10K	5%	1/4W	
R354	1-249-429-11	CARBON	10K	5%	1/4W	
R355	1-249-435-11	CARBON	33K	5%	1/4W	
R356	1-249-435-11	CARBON	33K	5%	1/4W	
R357	1-249-441-11	CARBON	100K	5%	1/4W	
R358	1-249-441-11	CARBON	100K	5%	1/4W	
R359	1-249-441-11	CARBON	100K	5%	1/4W	
R360	1-249-417-11	CARBON	1K	5%	1/4W	
R361	1-249-423-11	CARBON	3.3K	5%	1/4W	
R362	1-249-411-11	CARBON	330	5%	1/4W	
R363	1-249-411-11	CARBON	330	5%	1/4W	
R364	1-249-436-11	CARBON	39K	5%	1/4W	
R365	1-249-429-11	CARBON	10K	5%	1/4W	
R366	1-249-441-11	CARBON	100K	5%	1/4W	
R367	1-249-411-11	CARBON	330	5%	1/4W	
R368	1-249-414-11	CARBON	560	5%	1/4W	
R369	1-249-433-11	CARBON	22K	5%	1/4W	
R370	1-249-423-11	CARBON	3.3K	5%	1/4W	
R371	1-249-429-11	CARBON	10K	5%	1/4W	
R372	1-249-429-11	CARBON	10K	5%	1/4W	
R373	1-249-436-11	CARBON	39K	5%	1/4W	
R374	1-249-441-11	CARBON	100K	5%	1/4W	

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
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	1-465-870-11	REMOTE COMMANDER (RM-DK112) (E)	
	1-465-947-11	REMOTE COMMANDER (RM-DK113) (US, Canadian, AEP, UK)	
	1-558-271-11	CORD, CONNECTION	
	2-181-754-01	COVER, BATTERY	
	3-754-019-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH/PORTUGUESE)	
	3-754-019-41	MANUAL, INSTRUCTION (GERMAN/DUTCH/SWEDISH/ITALIAN) (AEP)	
*	4-922-998-01	CUSHION	
*	4-941-548-01	LABEL, CLASS 1 (AEP, UK, E)	
*	4-942-163-21	INDIVIDUAL CARTON (E)	
*	4-948-450-31	INDIVIDUAL CARTON (US, Canadian, AEP, UK)	
	8-812-030-90	MICROPHONE, DYNAMIC F-VJ10A (E)	